						4, L0752: 4, S0438: 3, H0521: 3, L0747: 3, H0265: 2, H0638: 2, H0046: 2, L0805: 2, L0791: 2, L0438: 2, L0743: 2, L0748: 2, L0780: 2, L0731: 2, H0716: 1, L0002: 1, H0341: 1, S0212: 1, H0305: 1, H0589: 1, S0444: 1, T0039: 1, H0427: 1, T0110: 1, H0545: 1, H0375: 1, H0124: 1, H0090: 1, H0616: 1, H0202: 1, T0041: 1, H0647: 1, S0344: 1, S0422: 1, H0529: 1, L0371: 1, L0764: 1, L0804: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, S0028: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1, H0506: 1 and H0008: 1.				
955	HFLUI19	879691	965	1084 - 2682	2370	Glu-26 to Lys-33, His-45 to Asn-50, Asp-149 to Tyr-154, Asn-175 to Asp-181, Gly-268 to Gln-275, Leu-375 to Asp-383, Thr-441 to Gly-456,	AR089: 1, AR033: 1, AR061: 1, AR060: 1, AR096: 0, AR052: 0, AR039: 0, AR055: 0 S0028: 8, S0282: 2, S0045: 2, S0031: 2, S0260: 2, S0001: 1, H0255: 1, S0132:			404-420, 286-302, 195-211

						Thr-499 to Arg-504.	1, S0278: 1, H0318: 1, H0199: 1, S0050: 1, S0051: 1, H0181: 1, S0036: 1, H0264: 1, S0144: 1, S0044: 1 and S0027: 1.					
956	HTWAG66	879698	966	354 - 803	2371		AR055: 11, AR060: 9, AR061: 9, AR033: 7, AR052: 6, AR053: 6, AR096: 6, AR089: 5, AR104: 5, AR039: 4 H0306: 1, H0637: 1, H0187: 1 and S0106: 1.					76-98
957	HLCLE14	879732	967	14 - 424	2372	His-34 to Tyr-39, Pro-113 to Glu-119.	AR033: 7, AR055: 7, AR060: 5, AR096: 5, AR052: 5, AR104: 4, AR089: 4, AR053: 4, AR061: 4, AR039: 2 L0751: 16, H0617: 14, L0766: 13, L0731: 9, L0743: 8, H0253: 7, H0052: 7, L0769: 6, H0521: 6, L0742: 6, L0759: 6, H0587: 5, H0618: 5, L0763: 5, L0764: 5, L0744: 5, L0758: 5, H0039: 3, S0210: 3, L0800: 3, L0662: 3, L0794: 3, L0659: 3, L0666: 3, L0747: 3, L0753: 3, L0757: 3, H0483: 2, H0494: 2,					119-137

			L0770: 2, L0768: 2, L0803: 2, L0806: 2, S0053: 2, H0593: 2, H0660: 2, S0152: 2, L0741: 2, L0750: 2, L0786: 2, L0603: 2, H0667: 2, H0506: 2, H0170: 1, H0583: 1, H0650: 1, H0255: 1, H0306: 1, S0420: 1, S0442: 1, S0222: 1, H0592: 1, H0586: 1, H0575: 1, H0590: 1, H0581: 1, H0546: 1, H0150: 1, H0123: 1, H0050: 1, H0012: 1, H0620: 1, H0024: 1, H0179: 1, H0252: 1, H0628: 1, H0124: 1, H0135: 1, H0087: 1, H0551: 1, H0116: 1, H0264: 1, H0623: 1, H0059: 1, H0561: 1, H0130: 1, L0631: 1, L0639: 1, L3904: 1, L0761: 1, L0772: 1, L0643: 1, L0644: 1, L0773: 1, L0363: 1, L0774: 1, L0375: 1, L0654: 1, L0776: 1, L0527: 1, L0658: 1, L0636: 1, L0783: 1, L0809: 1, L0789: 1, L0793: 1, L0664: 1, L0665: 1, H0519: 1, S0126: 1, H0435: 1, H0658: 1, H0539: 1, S0378: 1,			

					S0350: 1, S0188: 1, H0555: 1, H0436: 1, S0390: 1, S3014: 1, S0027: 1, L0780: 1, L0592: 1, L0361: 1, H0668: 1, H0653: 1, S0192: 1, H0542: 1, H0423: 1, S0424: 1, S0456: 1 and H0352: 1.				46-64, 27-43
958	HOFMH52	879744	968	307 - 777	2373	Arg-106 to Pro-115, Asn-134 to Lys-139, Pro-144 to Asp-151.	AR039: 12, AR104: 6, AR096: 5, AR033: 5, AR053: 5, AR052: 4, AR089: 4, AR060: 4, AR055: 3, AR061: 2 L0748: 7, L0766: 5, H0040: 3, L0747: 3, L0777: 3, L0755: 3, H0657: 2, H0486: 2, H0596: 2, S0372: 2, L0803: 2, S0126: 2, L0740: 2, L0754: 2, L0749: 2, L0758: 2, S0026: 2, H0170: 1, H0265: 1, H0125: 1, S0358: 1, S0410: 1, S0007: 1, L0717: 1, H0431: 1, H0415: 1, H0333: 1, H0642: 1, T0060: 1, H0156: 1, H0599: 1, H0530: 1, H0081: 1, H0050: 1, L0471: 1, H0239: 1, H0510: 1, H0266: 1, H0179: 1, H0068: 1, H0163: 1, H0087: 1,				

							S0438: 1, L0598: 1, L0500: 1, L0761: 1, L0764: 1, L0805: 1, L0655: 1, L0789: 1, L0663: 1, L0665: 1, H0648: 1, H0215: 1, S0406: 1, L0756: 1, L0759: 1 and H0542: 1.			
959	HWAHE17	879774	969	229 - 633	2374	Pro-80 to Lys-86, Thr-92 to Gln-106.	AR096: 3, AR055: 1, AR033: 1, AR060: 1, AR104: 1, AR061: 1, AR089: 0, AR052: 0 S0354: 1, H0581: 1, L0770: 1, L0752: 1 and L0759: 1.			14-45, 53-70, 35-51
960	HWAEG32	879900	970	27 - 530	2375	Leu-70 to Glu-75, Arg-131 to Ser-138.	AR039: 150, AR096: 20, AR053: 19, AR055: 11, AR089: 8, AR052: 4, AR033: 3, AR060: 2, AR061: 2, AR104: 1 S6026: 1, S0222: 1, H0191: 1, H0581: 1, H0544: 1 and H0598: 1.			1-32, 48-66, 78-94
961	HSLHB42	879927	971	479 - 886	2376		AR039: 5, AR033: 1, AR089: 1, AR096: 1, AR060: 1, AR055: 1, AR061: 1, AR053: 1, AR104: 1, AR052: 0 L0439: 9, L0777: 4, S0212: 3, L0794: 3, L0766:			41-57, 17-33, 77-93

						3, S0028: 3, L0754: 3, S0222: 2, H0591: 2, L0374: 2, L0803: 2, L0809: 2, H0521: 2, L0752: 2, L0731: 2, H0171: 1, H0713: 1, H0638: 1, S0444: 1, S0410: 1, L0021: 1, H0706: 1, H0545: 1, H0562: 1, H0051: 1, H0188: 1, H0553: 1, L0142: 1, H0090: 1, H0551: 1, L0351: 1, H0561: 1, L0763: 1, L0769: 1, L0761: 1, L0771: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, H0144: 1, S0122: 1, H0659: 1, H0522: 1, S0044: 1, H0626: 1, L0744: 1, L0747: 1, L0756: 1, L0755: 1, S0260: 1, S0436: 1, S0242: 1 and H0542: 1.				99-115, 64-80
						AR096: 8, AR089: 7, AR055: 7, AR060: 6, AR039: 6, AR033: 5, AR052: 5, AR053: 4, AR104: 4, AR061: 4 H0052: 2, H0255: 1, H0662: 1, H0329: 1, L0789: 1, H0690: 1 and L0747: 1.				
962	HDSAC28	879957	972	72 - 425	2377	Pro-27 to Leu-34, Ser-41 to His-54, Ala-81 to Ser-90.			

963	HFIHT27	879972	973	47 - 1873	2378	Pro-23 to Ser-30, Lys-64 to Gly-69, Arg-110 to Glu-117, Asp-218 to Lys-223, Lys-243 to Gly-249, Ala-448 to Glu-453, Asp-479 to Gln-485, Asn-504 to Ser-510, Pro-547 to Gln-557.	AR052: 3, AR096: 3, AR039: 2, AR061: 2, AR055: 2, AR053: 1, AR089: 1, AR033: 1, AR060: 1, AR104: 1 S0358: 1, H0580: 1, T0039: 1, H0519: 1, S0194: 1 and H0543: 1.			399-415, 335-351, 6-22, 45-61
964	HBIMS61	879980	974	318 - 704	2379		AR039: 30, AR053: 23, AR096: 20, AR033: 18, AR089: 18, AR104: 17, AR052: 16, AR055: 15, AR060: 12, AR061: 9 L0803: 5, L0763: 3, S0360: 2, H0556: 1, H0369: 1, H0392: 1, H0599: 1, H0581: 1, H0251: 1, H0012: 1, L0770: 1, L0800: 1, L0375: 1, L0807: 1, L0809: 1, L0647: 1, L0663: 1, H0593: 1 and L0779: 1.			38-63, 71-94, 10-26
965	HCDAH28	880010	975	781 - 1227	2380		AR061: 11, AR055: 7, AR096: 6, AR060: 5, AR052: 5, AR033: 4, AR089: 3, AR053: 3, AR104: 2, AR039: 2 H0251: 8, H0624: 4, L0752: 4, H0171: 1, H0286:			79-103, 113-136, 8-24

							1, L0598: 1, L0774: 1, S0428: 1, H0144: 1 and S0126: 1.			
966	HSDFD90	880039	976	866 - 1399	2381	Gln-9 to Gly-15.	AR104: 82, AR033: 43, AR055: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 4, AR039: 4, AR053: 4, AR061: 3 S0126: 2, H0171: 1, S0134: 1, S0053: 1 and S0031: 1.			143-171, 48-68, 15-33, 73-89
967	HTLJK34	880137	977	177 - 782	2382	Thr-125 to Gly-141, Pro-151 to Leu-156, Cys-160 to Lys-169, Lys-175 to Lys-187.	AR055: 10, AR060: 6, AR061: 5, AR033: 5, AR089: 4, AR096: 4, AR053: 4, AR052: 3, AR104: 3, AR039: 2 L0758: 5, H0618: 1, H0616: 1 and L0794: 1.			30-57, 12-28, 105-121
968	HNGKC65	880142	978	1207 - 1671	2383	Ala-97 to His-105.	AR033: 1, AR039: 1, AR089: 1, AR060: 1, AR096: 1, AR053: 1, AR061: 0, AR052: 0, AR055: 0, AR104: 0 H0687: 2, S0428: 1, H0682: 1 and S0032: 1.			21-52, 53-77, 123-144, 105-121, 14-30
969	HHENP77	880178	979	770 - 2893	2384	Glu-124 to Leu-131, Asp-266 to Pro-271, Asn-273 to Phe-280, Glu-315 to Arg-321,	AR039: 11, AR033: 7, AR096: 6, AR053: 5, AR052: 5, AR104: 4, AR089: 4, AR060: 4,			625-652, 3-19, 210-226, 150-166, 494-

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							L0640: 1, L0770: 1, L0637: 1, L0372: 1, L0643: 1, L0374: 1, L0375: 1, L0776: 1, L0659: 1, L0636: 1, L0518: 1, L0382: 1, L0519: 1, L0647: 1, L0663: 1, H0144: 1, H0723: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, S0406: 1, L0612: 1, S0037: 1, L0741: 1, L0744: 1, L0439: 1, L0740: 1, L0751: 1, L0757: 1, S0031: 1, H0707: 1, L0485: 1 and H0543: 1.				
												53-75, 28-44
971	HHEVU86	880221	981	157 - 480	2386	Pro-46 to Ser-55, Gly-90 to His-96.	AR096: 11, AR089: 9, AR039: 8, AR104: 5, AR053: 5, AR052: 5, AR060: 4, AR033: 4, AR055: 1, AR061: 1 H0635: 1, H0052: 1, L0648: 1, L0601: 1 and H0543: 1.					
972	HNFIB27	880254	982	309 - 1484	2387		AR096: 3, AR039: 1, AR033: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR053: 0, AR104: 0					276-309

							H0052: 8, H0620: 3, H0494: 2, L0741: 2, S0046: 1, H0645: 1, H0587: 1, H0485: 1, H0156: 1, L0032: 1, H0569: 1, H0012: 1, H0014: 1, T0010: 1, H0375: 1, H0416: 1, H0622: 1, H0553: 1, S0036: 1, H0702: 1, L0438: 1, H0547: 1, H0435: 1, H0660: 1, H0555: 1, L0611: 1 and H0506: 1.			
973	HAPSG46	880278	983	6 - 434	2388		AR061: 2, AR039: 1, AR060: 1, AR089: 1, AR033: 1, AR096: 0, AR053: 0, AR055: 0, AR104: 0, AR052: 0 S0001: 2, H0575: 1, S0388: 1 and S0260: 1.			15-39, 90-114, 70-89, 38-60
974	HTEDK31	880341	984	179 - 529	2389		AR055: 7, AR053: 4, AR060: 4, AR052: 4, AR039: 3, AR033: 3, AR061: 3, AR096: 2, AR089: 2, AR104: 1 H0038: 2, L0770: 2, H0597: 1, H0616: 1, L0560: 1 and L0526: 1.			19-42, 1-18, 77-93, 53-69
975	HCWFW07	880358	985	111 - 662	2390	Pro-22 to Thr-29, Gln-120 to Arg-128, Asn-151 to Phe-167.	AR096: 6, AR104: 4, AR033: 3, AR055: 3, AR060: 3, AR089: 3,			42-68, 97-116

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976	HUFCR29	880363	986	498 - 1154	2391	Met-1 to Gln-7, Pro-9 to Leu-14, Trp-27 to Arg-33.	AR052: 3, AR089: 2, AR033: 2, AR055: 2, AR053: 2, AR096: 1, AR060: 1, AR061: 1, AR104: 0, AR039: 0 L0803: 5, L0764: 4, H0617: 3, L0771: 3, L0809: 3, L0751: 3, S0458: 3, H0549: 2, S0051: 2, L0761: 2, L0800: 2, L0508: 2, L0664: 2, H0689: 2, S0436: 2, H0170: 1, S0354: 1, S0358: 1, H0208: 1, H0438: 1, H0282: 1, S0010: 1, H0085: 1, H0059: 1, L0502: 1, L0770: 1, L0646: 1, L0643: 1, L0794: 1, L0774: 1, L0805: 1, L0511: 1, L0517: 1, L0665: 1, H0658: 1, H0696: 1, S0404: 1,			107-138, 140-173, 65-91, 31-57

						S0406: 1, L0439: 1, L0755: 1, S0260: 1, L0599: 1 and H0506: 1.					
977	HNTCN90	880370	987	338 - 637	2392		AR061: 3, AR096: 2, AR055: 1, AR053: 1, AR104: 1, AR089: 1, AR033: 1, AR060: 1, AR039: 0, AR052: 0 H0676: 1, H0013: 1, H0553: 1, H0529: 1, H0519: 1, L0745: 1 and L0759: 1.				33-66, 2-19	
978	HCMSE07	880378	988	555 - 896	2393	Glu-59 to Gln-65.	AR096: 95, AR039: 83, AR104: 79, AR033: 64, AR060: 48, AR089: 42, AR061: 42, AR053: 40, AR052: 38, AR055: 27 H0651: 155, L0731: 9, L0777: 6, L0803: 4, L0775: 3, H0196: 2, H0163: 2, L0662: 2, L0805: 2, L0783: 2, L0438: 2, L0740: 2, L0759: 2, H0170: 1, S0444: 1, H0592: 1, H0632: 1, L0471: 1, H0399: 1, H0615: 1, H0040: 1, S0294: 1, H0647: 1, L0598: 1, L0763: 1, L0638: 1, L0637: 1, L0642: 1, L0374: 1, L0767: 1, L0768: 1, L0794: 1,				65-83, 86-102	

							L0804: 1, L0774: 1, L0375: 1, L0776: 1, L0606: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1, L0594: 1, L0361: 1, S0026: 1, S0242: 1 and S0460: 1.			
979	HWMEV61	880405	989	1227 - 1529	2394	Gln-26 to Cys-32.	AR039: 15, AR033: 8, AR104: 5, AR089: 5, AR096: 5, AR052: 5, AR053: 4, AR060: 4, AR055: 4, AR061: 3 H0253: 2, L0455: 2, L0764: 2, L0649: 2, L0754: 2, S0358: 1, H0046: 1, H0617: 1, H0090: 1, H0038: 1, S0142: 1, S0344: 1, L0646: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0658: 1, L0659: 1, L0789: 1, H0539: 1, S0404: 1, S0406: 1, L0439: 1, L0750: 1, L0777: 1 and L0780: 1.			55-73, 3-19, 35-51
980	HDPWT82	880431	990	41 - 730	2395		AR033: 2, AR096: 1, AR053: 1, AR060: 1,			24-56, 183-207,

						AR089: 1, AR061: 1, AR104: 0, AR052: 0, AR039: 0, AR055: 0 H0171: 4, L0803: 3, H0521: 3, H0624: 2, S0358: 2, S0222: 1, H0574: 1, L0040: 1, H0622: 1, T0006: 1, L0455: 1, L0763: 1, L0662: 1, L0766: 1, L0655: 1, L0659: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0522: 1, H0540: 1, L0744: 1, L0779: 1, H0445: 1, L0589: 1, S0458: 1 and H0506: 1.			115-136, 151-169, 70-86, 96-112
						AR055: 8, AR061: 5, AR060: 4, AR033: 4, AR089: 4, AR052: 4, AR053: 4, AR096: 2, AR104: 2, AR039: 0 L0748: 9, H0617: 4, S0222: 2, L0769: 2, L0756: 2, L0758: 2, H0341: 1, S0001: 1, S0358: 1, H0619: 1, T0040: 1, S0346: 1, H0052: 1, H0081: 1, H0266: 1, L0143: 1, S0142: 1, S0344: 1, L0774: 1, L0784: 1, H0144: 1, H0651: 1, S0027: 1, L0777: 1 and			118-142
981	HBGOU17	880444	991	41 - 505	2396	Gln-67 to Ala-73, Ala-85 to Asp-90, Arg-102 to Thr-112.				

982	HHAMV78	880520	992	585 - 265	2397	Pro-23 to Gly-29, Glu-101 to Asp-107.	S0011: 1.	60-85
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							1, L0663: 1, S0374: 1, H0520: 1, S0126: 1, S0190: 1, S0176: 1, H0436: 1, L0757: 1, L0758: 1, H0542: 1, H0543: 1, L0697: 1, L0600: 1 and H0352: 1.			
983	HMALN60	880542	993	3 - 512	2398	Arg-6 to Gln-13, Thr-44 to Ser-50, Pro-145 to Asn-168.	AR060: 5, AR096: 3, AR055: 3, AR061: 2, AR104: 1, AR033: 0, AR089: 0, AR053: 0, AR052: 0 S0045: 1, S0278: 1, H0617: 1 and S0044: 1.			93-110
984	HETBT53	880575	994	66 - 1574	2399	Ser-30 to Leu-36, His-55 to Asn-61, Gln-71 to Gln-96, Pro-129 to Lys-136, Lys-146 to Ser-157, Gly-215 to Ala-220, Ala-250 to Ser-256, Phe-316 to Arg-323, Pro-421 to Ala-427, Leu-435 to Asp-440, Ser-453 to Asp-460.	AR060: 6, AR055: 3, AR089: 1, AR039: 1, AR104: 1, AR033: 1, AR061: 1, AR053: 0, AR096: 0, AR052: 0 H0046: 3, L0601: 3, H0013: 2, H0050: 2, H0620: 2, L0774: 2, S0222: 1, L0471: 1, H0012: 1, L0455: 1, S0150: 1, L0770: 1, L0775: 1, L0655: 1, H0144: 1, H0521: 1, H0134: 1, L0752: 1, S0260: 1 and S0042: 1.			166-182, 401-417
985	HRAEC49	880595	995	148 - 1251	2400	Phe-30 to Arg-36, Ser-68 to Trp-75.	AR096: 8, AR089: 7, AR060: 7, AR104: 6,			71-101, 339-363,

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986	HNHBD03	880637	996	100 - 1140	2401						

				Met-40 to Arg-45, Arg-78 to Phe-84, Gly-120 to Gly-126, Phe-150 to Asp-156, Leu-167 to Gly-176, Thr-195 to Thr-202, Asn-336 to Leu-344.	AR089: 2, AR061: 1, AR096: 1, AR104: 1, AR039: 0, AR053: 0 L0766: 5, L0779: 5, L0731: 4, S0358: 3, L0770: 2, L0794: 2, S0374: 2, L0747: 2, L0749: 2, S0444: 1, H0013: 1, H0575: 1, H0581: 1, H0572: 1, H0354: 1, H0622: 1, H0591: 1, H0551: 1, H0494: 1, S0440: 1, H0529: 1, L0796: 1, L0773: 1, L0662: 1, L0804: 1, L0659: 1, L0790: 1, S0053: 1, H0690: 1, H0648: 1, H0672: 1, S0028: 1, L0780: 1, S0434: 1, S0192: 1, H0543: 1 and H0423: 1.				47-63, 233-249
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987	HTTCB17	880657	997	55 - 1743	2402				

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988	HE9QG38	880670	998	345 - 1646	2403	Met-1 to Arg-7, Pro-11 to Phe-16, Gly-23 to Glu-34, Trp-124 to Arg-132, Gln-165 to Asp-181, Phe-216 to Thr-221, Gln-286 to Ser-301, Gly-317 to Gln-322, Asp-357 to Asn-366.	AR061: 6, AR052: 5, AR055: 4, AR096: 4, AR089: 4, AR053: 3, AR033: 3, AR060: 3, AR039: 2, AR104: 1 L0766: 7, L0803: 4, H0144: 4, L0779: 3, H0271: 2, S0003: 2, L0761: 2, L0792: 2, L0755: 2, H0171: 1, H0556: 1, S0134: 1, S0218: 1, H0656: 1, S0356: 1, H0580: 1, H0619: 1,			

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989	HTTJY18	880697	999	310 - 1263	2404	Met-1 to Lys-8, Lys-23 to Ala-31.					

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					2405	Ser-30 to Leu-35, Pro-44 to Glu-63, Arg-138 to Ala-143, Phe-170 to Asp-177, Arg-248 to Phe-253, Ser-270 to Ala-277, Asp-322 to Gly-335, Leu-363 to Ser-369, Tyr-381 to Glu-388, Arg-455 to Arg-460.	AR096: 90, AR053: 49, AR039: 45, AR052: 27, AR089: 22, AR055: 15, AR033: 14, AR061: 14, AR104: 13, AR060: 10 L0439: 6, H0556: 2, S0007: 2, L0744: 2, L0740: 2, L0731: 2, S0442: 1, L0021: 1, H0618: 1, H0253: 1, H0041: 1, L0770: 1, L0800: 1, L0766: 1, L0803: 1, L0375: 1, L0807: 1,			230-246, 89-107, 199-215, 122-138, 149-165
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991	HDABX58	880753	1001	924 - 1490	2406	Met-1 to Thr-7, Trp-12 to Trp-17.	AR052: 8, AR039: 7, AR033: 7, AR089: 7, AR053: 6, AR096: 6, AR104: 5, AR055: 5, AR060: 4, AR061: 4 L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494: 1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768:	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575	37-57, 138-154, 82-98	

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992	HE9PB45	880774	1002	880 - 1194	2407	Lys-95 to Tyr-100.	AR061: 6, AR055: 5, AR033: 5, AR052: 4, AR096: 4, AR060: 3, AR089: 3, AR053: 3, AR104: 1 L0770: 6, L0766: 5, L0777: 5, L0759: 4, H0052: 2, L0769: 2, L0750: 2, L0592: 2, L0608: 2, S0040: 1, H0663: 1, H0497: 1, H0575: 1, L0157: 1, H0591: 1, H0264: 1, L0764: 1, L0662: 1, L0774: 1, H0144: 1, L0438: 1, S0126: 1, H0683: 1, H0521: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1, L0753: 1, L0758: 1, S0434: 1, H0543: 1 and H0422: 1.				37-56, 5-21
993	HELGM94	880807	1003	73 -	2408	Lys-91 to Ala-106,	AR096: 13, AR089: 10,	16p11.2	147781,			139-155,

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	880809										
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995	HTXJF02	880913	1005	122 - 646	2410	Ala-15 to Gln-20, Tyr-89 to Glu-103, Lys-156 to Gly-163.	AR033: 77, AR052: 62, AR053: 55, AR104: 36, AR089: 23, AR055: 22, AR096: 21, AR060: 12, AR039: 9, AR061: 9 H0556: 1, H0295: 1, S0418: 1, S0354: 1, H0586: 1, H0587: 1 and H0494: 1.				134-155, 26-45, 59-77, 112-129
996	HKAEN78	880927	1006	66 - 479	2411	Tyr-46 to Gly-52.	AR104: 7, AR033: 6, AR053: 6, AR052: 6, AR039: 5, AR060: 3, AR055: 3, AR096: 3, AR089: 3, AR061: 1 S0356: 2, S0002: 2, L0772: 2, L0748: 2, L0758: 2,				99-115, 16-32

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997	HKADD76	880936	1007	93 - 1070	2412	Arg-49 to Tyr-62, Tyr-88 to Ala-97, Gly-230 to Lys-239, Gln-270 to Cys-276, Glu-296 to Gly-304.	AR096: 2, AR052: 1, AR061: 1, AR089: 1, AR060: 0, AR053: 0, AR033: 0, AR039: 0, AR104: 0 H0264: 4, H0488: 4, S0328: 3, S0306: 2, S0476: 1, H0272: 1, H0487: 1, H0494: 1, H0633: 1, L5623: 1 and S0330: 1.	2		239-268, 145-171, 100-118, 194-210, 5-21, 65-81, 132-148, 308-324
998	HKIYF62	880972	1008	140 - 517	2413	Val-7 to Lys-12, Tyr-58 to Leu-64, Arg-91 to Ser-104, Pro-117 to Val-126.	AR039: 28, AR096: 21, AR104: 18, AR060: 16, AR061: 16, AR089: 15, AR053: 15, AR055: 14, AR033: 13, AR052: 10 L0748: 17, H0521: 13, L0655: 4, H0522: 4, L0754: 4, H0575: 3, L0439: 3,	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700,	70-90, 12-28

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					Asp-18 to Gly-24, Asp-63 to Met-70, Ser-82 to Pro-89, Glu-117 to Ser-125, Glu-151 to Asp-171.	AR104: 17, AR033: 17, AR060: 15, AR061: 9, AR053: 7, AR089: 4, AR052: 4, AR039: 3, AR096: 2 L0438: 7, L0769: 4,				225-252, 181-202
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1000	HDQDF85	881146	1010	227 - 1615	2415	Ser-2 to Ser-7, Gly-44 to Asp-50, Ala-60 to Lys-70.	AR039: 17, AR033: 9, AR104: 9, AR096: 9, AR053: 9, AR089: 8, AR055: 8, AR061: 6, AR060: 6, AR052: 6 L0439: 8, H0457: 5, L0438: 5, H0521: 5, L0748: 4, H0090: 3, S0142: 3, L0761: 3, L0415: 2, H0663: 2, S0344: 2, L0644: 2, L0794: 2, L0776: 2, L0665: 2, S0052: 2, L0751: 2, L0756: 2, H0662: 1, S0444: 1, H0637: 1, S0278: 1, H0550: 1, H0614: 1, H0586: 1, H0486: 1, T0040: 1,	16			410-426, 186-202

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1002	HEOQC11	881219	1012	78 - 2348	2417	Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	AR096: 4, AR089: 3, AR039: 3, AR104: 3, AR053: 3, AR052: 2, AR033: 2, AR061: 2, AR060: 2, AR055: 1 H0457: 8, H0556: 6, L0751: 6, H0618: 4, H0318: 4, H0038: 3, L0766: 3, S0442: 2, S0354: 2, H0553: 2, H0616: 2, H0100: 2, L0764: 2, L0662: 2, L0659: 2, L0783: 2, L0528: 2, S0152: 2, L0756: 2, L0731: 2, L0587: 2, H0667: 2, H0543: 2, H0295: 1, H0294: 1, S0134: 1, H0657: 1, S0418: 1, L0617: 1, S0376: 1, S0444: 1, S0360: 1,	22		318-335, 451-467, 152-168, 243-259

						Lys-651 to Val-679, Lys-700 to Ser-706, Pro-714 to Ala-738, Asp-747 to Gly-753.	H0619: 1, H0369: 1, H0370: 1, T0039: 1, H0427: 1, H0581: 1, H0597: 1, H0123: 1, H0024: 1, H0200: 1, H0051: 1, H0510: 1, H0266: 1, H0271: 1, H0290: 1, H0428: 1, H0424: 1, H0030: 1, H0644: 1, H0181: 1, H0617: 1, H0032: 1, H0165: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0087: 1, H0264: 1, L0770: 1, L0627: 1, L0372: 1, L0646: 1, L0768: 1, L0775: 1, L0658: 1, L0809: 1, L0665: 1, H0701: 1, H0699: 1, S0126: 1, H0684: 1, H0539: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0752: 1, L0759: 1, L0596: 1, L0599: 1, L0593: 1, S0192: 1 and H0422: 1.	AR055: 4, AR052: 4, AR060: 3, AR053: 3, AR104: 3, AR096: 3, AR061: 3, AR039: 3, AR033: 3, AR089: 2 L0777: 10, L0748: 9, L0666: 8, H0457: 6, L0758: 6, L0438: 5, L0750: 5,			44-60, 134-150
1003	HJKTA08	881310	1013	625 - 170	2418	Glu-105 to Val-112.				

						H0123: 1, H0057: 1, H0014: 1, S0362: 1, H0051: 1, H0179: 1, H0615: 1, L0483: 1, L0142: 1, T0042: 1, S0440: 1, S0150: 1, L0369: 1, L0761: 1, L0764: 1, L0364: 1, L0389: 1, L0804: 1, L0659: 1, L0809: 1, L0787: 1, L0663: 1, H0702: 1, H0520: 1, H0593: 1, H0689: 1, H0690: 1, H0683: 1, S0378: 1, H0518: 1, H0522: 1, S0044: 1, H0555: 1, H0478: 1, L0749: 1, L0786: 1, L0779: 1, S0260: 1, H0445: 1, S0434: 1 and H0422: 1.			
1004	HFPAD41	881359	1014	74 - 436	2419	AR096: 14, AR104: 13, AR060: 10, AR039: 9, AR089: 9, AR033: 7, AR055: 7, AR052: 6, AR053: 6, AR061: 5 H0706: 2, S0010: 2, H0171: 1, H0728: 1, S6016: 1, H0441: 1, H0486: 1, H0544: 1, L0471: 1, S0050: 1, T0010: 1, T0006: 1, L0768: 1, L0775: 1, L0759: 1 and L0604: 1.				83-104, 18-34, 55-72

1005	HPJCS44	881430	1015	29 - 454	2420	His-35 to Ala-40, His-44 to Leu-56, Pro-64 to Pro-71, Arg-95 to Asn-110, Ser-114 to Pro-132.	AR055: 13, AR033: 12, AR060: 10, AR089: 9, AR061: 8, AR096: 7, AR052: 5, AR053: 5, AR104: 4, AR039: 3 H0318: 3, H0046: 3, L0742: 3, L0747: 3, S0046: 2, H0455: 2, L0748: 2, S0342: 1, H0662: 1, S0358: 1, S0444: 1, S0278: 1, H0370: 1, T0040: 1, S0280: 1, H0565: 1, L0471: 1, H0014: 1, S0388: 1, H0266: 1, H0288: 1, H0124: 1, H0708: 1, H0040: 1, H0625: 1, H0641: 1, H0647: 1, L0518: 1, S0374: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0390: 1, L0750: 1, L0752: 1, L0731: 1, L0592: 1 and H0423: 1.			72-93
1006	HTAIV82	881434	1016	267 - 581	2421		AR033: 2, AR089: 1, AR060: 1, AR061: 0, AR039: 0 H0265: 1, H0556: 1, H0574: 1, H0635: 1 and H0423: 1.			55-71, 79-95
1007	HACBW10	881438	1017	1112 - 1414	2422	His-22 to Thr-28, His-89 to Cys-96.	AR039: 38, AR052: 26, AR053: 25, AR104: 21,			66-87

		AR089: 21, AR096: 21, AR033: 21, AR055: 20, AR060: 14, AR061: 11 L0439: 13, L0438: 11, L0769: 10, L0766: 7, L0749: 5, L0666: 3, L0352: 3, L0748: 3, L0779: 3, H0637: 2, H0052: 2, H0194: 2, L0351: 2, L0770: 2, L0761: 2, L0783: 2, L0789: 2, L0790: 2, L0664: 2, L0747: 2, L0758: 2, L0759: 2, H0445: 2, L0592: 2, H0624: 1, H0556: 1, H0686: 1, T0049: 1, H0657: 1, H0483: 1, H0663: 1, H0638: 1, S0420: 1, S0376: 1, S0007: 1, H0619: 1, H0393: 1, L0717: 1, H0441: 1, H0643: 1, S0280: 1, H0253: 1, H0318: 1, S0388: 1, T0010: 1, H0271: 1, H0428: 1, H0424: 1, H0606: 1, L0456: 1, H0056: 1, H0494: 1, S0352: 1, H0538: 1, H0529: 1, L0763: 1, L0772: 1, L0378: 1, L0657: 1, L0658: 1, L0659: 1, H0144: 1, H0693: 1, H0520: 1, H0690: 1, H0658: 1, H0539:			

						1, H0521: 1, H0436: 1, S0037: 1, S0206: 1, L0740: 1, L0754: 1, L0593: 1, S0011: 1, H0665: 1, S0242: 1, H0423: 1 and H0422: 1.					
1008	HUFBN79	881443	1018	20 - 610	2423	Phe-5 to Ala-19, Ser-29 to Asp-41, Leu-49 to Val-57, Glu-68 to Arg-77, Pro-163 to Glu-171.	AR053: 3, AR039: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR061: 1, AR033: 1, AR060: 0, AR104: 0 L0748: 9, S0007: 6, L0754: 5, S0134: 3, H0457: 3, L0771: 3, L0666: 3, L0749: 3, H0657: 2, S0420: 2, S0358: 2, S0360: 2, S0222: 2, L0761: 2, L0764: 2, L0766: 2, L0607: 2, L0809: 2, H0648: 2, L0742: 2, L0759: 2, H0506: 2, H0686: 1, H0583: 1, S0116: 1, H0450: 1, S0045: 1, H0640: 1, H0351: 1, H0600: 1, H0574: 1, L0021: 1, H0575: 1, H0274: 1, H0581: 1, T0003: 1, H0014: 1, H0099: 1, H0179: 1, T0023: 1, H0673: 1, H0264: 1, H0102: 1, H0494: 1, H0561: 1, H0538: 1, L0598: 1, L0637: 1, L0667: 1, L0772:				169-191, 99-115

						1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0364: 1, L0649: 1, L0650: 1, L0653: 1, L0655: 1, L0542: 1, L0526: 1, L0789: 1, L0663: 1, L0664: 1, L0665: 1, L0565: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0660: 1, H0651: 1, H0521: 1, H0696: 1, L0744: 1, L0439: 1, L0751: 1, L0745: 1, L0746: 1, L0747: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, L0731: 1, L0588: 1, L0581: 1, L0361: 1, S0242: 1, H0542: 1, UNKWN: 1, L0600: 1 and H0352: 1.			54-78, 17-40
1009	HCFCN07	881450	1019	66 - 575	2424	Ser-48 to Trp-54, Pro-77 to Phe-84, Leu-89 to Leu-103, Met-110 to Asp-132, Glu-165 to Glu-170.	AR089: 12, AR033: 9, AR052: 8, AR053: 7, AR039: 7, AR055: 6, AR096: 5, AR060: 5, AR061: 2, AR104: 2 L0747: 8, L0752: 7, S0358: 6, L0758: 6, H0521: 5, L0740: 5, L0757: 5, L0771: 4, L0749: 4, L0731: 4, L0362: 4, S0360: 3, H0486: 3, H0551: 3, L0766: 3, L0775: 3, S0376: 2,			

1010	HLWDZ66	881490	1020	219 - 683	2425	Pro-8 to Ser-18, Thr-59 to Gly-66, Asn-107 to Gln-112, Ser-136 to Glu-152.	S0424: 1, H0677: 1 and H0506: 1.		65-81
							AR096: 4, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0759: 7, L0803: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, T0040: 1, H0036: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, H0519: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, H0555: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1.		

1011	HEONP58	881498	1021	80 - 568	2426	Trp-114 to Ala-120, Thr-147 to Asp-153.	AR039: 3, AR033: 3, AR089: 2, AR061: 2, AR096: 2, AR052: 2, AR055: 2, AR060: 1, AR104: 1, AR053: 1 L0809: 3, L0769: 2, L0764: 2, L0773: 2, L0766: 2, L0774: 2, L0659: 2, L0438: 2, S0328: 2, L0731: 2, L0603: 2, H0583: 1, H0549: 1, H0438: 1, H0586: 1, H0486: 1, H0052: 1, H0457: 1, H0553: 1, H0561: 1, L0640: 1, L0770: 1, L0638: 1, L0761: 1, L0800: 1, L0644: 1, L0771: 1, L0662: 1, L0767: 1, L0768: 1, L0775: 1, L0655: 1, L0559: 1, L0518: 1, L0783: 1, L0789: 1, L0790: 1, L0664: 1, S0380: 1, S0406: 1, L0777: 1 and L0757: 1.			91-114, 3-23, 59-75
1012	HMAGN19	881531	1022	694 - 1074	2427	Pro-12 to Ala-23, Thr-90 to Thr-95.	AR096: 4, AR052: 3, AR039: 2, AR053: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0 S0045: 6, S0028: 5, S0278: 2, S0031: 2, S0282: 1, S0046: 1, S6026: 1, H0550:			95-121, 32-48

					1, S0222: 1, H0013: 1, H0318: 1, H0246: 1, H0271: 1, S0052: 1, S0428: 1, S0037: 1 and L0592: 1.					
1013	HFCAP42	881569	1023	640 - 1227	2428	AR033: 2, AR104: 1, AR053: 1, AR052: 1, AR089: 1, AR060: 1, AR061: 0, AR039: 0, AR055: 0, AR096: 0 H0545: 7, H0617: 7, S0360: 4, H0658: 4, H0494: 3, H0295: 2, S0212: 2, H0661: 2, S0358: 2, H0606: 2, S0440: 2, L0769: 2, L0794: 2, L0783: 2, L0749: 2, L0601: 2, H0713: 1, H0717: 1, H0716: 1, H0294: 1, S0418: 1, S0356: 1, H0733: 1, S0045: 1, S0132: 1, S0278: 1, H0586: 1, L0622: 1, H0599: 1, H0581: 1, S0049: 1, H0052: 1, H0309: 1, H0544: 1, H0150: 1, H0009: 1, H0564: 1, H0620: 1, S0388: 1, H0375: 1, H0615: 1, H0031: 1, S0036: 1, H0059: 1, S0450: 1, H0633: 1, S0426: 1, L0371: 1, L0770: 1, L0645: 1, L0768: 1, L0804: 1,	1q31	134580, 145001, 145260, 150292, 208250, 226450, 600105, 600759, 600995, 601652	84-101, 175-191

						L0775: 1, L0806: 1, L0653: 1, L0790: 1, L0666: 1, H0547: 1, S0126: 1, H0689: 1, H0539: 1, S3012: 1 and L0740: 1.				
1014	HWBBT49	881570	1024	70 - 1095	2429	Glu-96 to Lys-106.	AR096: 1, AR052: 1, AR033: 0, AR061: 0, AR089: 0, AR055: 0, AR053: 0, AR039: 0, AR060: 0, AR104: 0 L0439: 6, S0002: 5, S0360: 3, H0580: 3, H0575: 3, S0346: 3, L0483: 3, L0804: 3, L0748: 3, H0597: 2, S0144: 2, L0662: 2, L0517: 2, L0665: 2, L0438: 2, L0754: 2, L0779: 2, S0242: 2, S0420: 1, S0356: 1, H0574: 1, H0042: 1, H0570: 1, H0510: 1, H0375: 1, S6028: 1, H0622: 1, L0194: 1, H0634: 1, H0413: 1, S0464: 1, S0344: 1, L0638: 1, L0761: 1, L0643: 1, L0493: 1, L0659: 1, L0783: 1, L0530: 1, L0666: 1, S0374: 1, H0593: 1, S0126: 1, H0435: 1, H0521: 1, H0478: 1, L0749: 1, L0777: 1, L0731: 1, H0445: 1,			2-23, 52-68, 128-144	

							S0434: 1, S0194: 1 and H0543: 1.			
1015	HDPBT62	881683	1025	90 - 473	2430	Asn-31 to Thr-37, Arg-83 to Asn-88.	AR039: 45, AR053: 40, AR104: 30, AR096: 29, AR052: 29, AR033: 27, AR089: 23, AR055: 20, AR060: 16, AR061: 14 H0521: 3, H0457: 2, H0497: 1, H0014: 1, H0179: 1, L0766: 1, H0698: 1, . H0542: 1 and H0506: 1.			43-59, 90-106
1016	HDTIT02	881693	1026	111 - 572	2431	Thr-29 to Arg-36, Cys-41 to Arg-57, Lys-62 to Gln-67, Gly-75 to Ile-83, Lys-123 to Thr-131, Leu-137 to Glu-145.	AR089: 11, AR033: 9, AR052: 7, AR060: 7, AR053: 6, AR055: 5, AR061: 4, AR096: 2, AR104: 2, AR039: 0 L0747: 16, L0748: 15, L0731: 10, L0752: 8, L0775: 7, L0750: 7, S0328: 6, L0757: 6, S0358: 5, S3014: 5, S0354: 3, H0038: 3, H0040: 3, L0774: 3, S0378: 3, H0696: 3, S0360: 2, H0393: 2, H0587: 2, H0069: 2, H0110: 2, H0413: 2, T0042: 2, S0422: 2, L0763: 2, L0770: 2, L0772: 2, L0764: 2, L0768: 2, L0806: 2, L0666: 2, H0659:			99-122

							1, S0196: 1, H0542: 1, H0422: 1 and S0384: 1.			
1017	HWHHS59	881714	1027	46 - 612	2432	Pro-19 to Ala-24.	AR096: 8, AR053: 8, AR052: 7, AR089: 6, AR033: 6, AR055: 4, AR060: 4, AR104: 3, AR039: 2, AR061: 2 H0052: 3, L0751: 3, H0624: 2, S0418: 2, L0562: 2, H0179: 2, L0761: 2, L0771: 2, L0766: 2, L0659: 2, L0750: 2, L0777: 2, L0590: 2, S0376: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0581: 1, H0546: 1, H0571: 1, H0083: 1, H0266: 1, H0181: 1, H0617: 1, H0124: 1, H0634: 1, H0551: 1, H0488: 1, L0351: 1, L0769: 1, L0637: 1, L0662: 1, L0378: 1, L0805: 1, L0655: 1, L0788: 1, L0666: 1, L0664: 1, L0665: 1, H0547: 1, H0519: 1, H0659: 1, H0521: 1, L0439: 1, L0747: 1, L0779: 1, L0758: 1 and H0543: 1.			156-175, 67-83, 7-23, 45-61
1018	HJPCP29	881766	1028	24 - 737	2433	Gln-81 to Gly-88.	AR055: 9, AR053: 5, AR052: 5, AR096: 5,			27-56, 164-181,

					AR033: 5, AR060: 4, AR089: 4, AR061: 3, AR039: 3, AR104: 3 L0758: 5, S0358: 4, L0439: 4, S0356: 3, L0751: 3, L0747: 3, L0779: 3, H0265: 2, H0381: 2, H0331: 2, H0052: 2, H0009: 2, L0157: 2, H0617: 2, L0769: 2, L0806: 2, L0783: 2, L0750: 2, S0436: 2, H0556: 1, H0685: 1, L0619: 1, L0005: 1, S0444: 1, H0619: 1, H0587: 1, H0566: 1, H0051: 1, H0083: 1, T0006: 1, L0055: 1, H0316: 1, H0135: 1, H0616: 1, H0551: 1, H0494: 1, L0372: 1, L0648: 1, L0768: 1, L0803: 1, L0379: 1, L0807: 1, L0659: 1, L0793: 1, L0665: 1, H0520: 1, H0547: 1, H0689: 1, H0539: 1, H0522: 1, H0696: 1, S3012: 1, S3014: 1, L0748: 1, L0777: 1, H0543: 1 and H0506: 1.			132-149, 105-121, 59-75
					AR096: 5, AR104: 4, AR039: 4, AR052: 4, AR053: 3, AR055: 2, AR089: 2, AR033: 2,				85-104, 65-83
1019	HHEBM09	881890	1029	132 - 461	2434	Leu-22 to Ser-27.				

							AR061: 1, AR060: 1 L0748: 3, S0250: 1, L0751: 1 and H0542: 1.				
1020	HDPIV17	881907	1030	41 - 739	2435	Ser-62 to Ala-69, Gly-77 to Gly-98.	AR060: 1, AR055: 1, AR089: 1, AR061: 1, AR033: 0, AR096: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 L0766: 3, H0635: 1, H0318: 1, H0581: 1, H0457: 1, H0179: 1, H0560: 1, H0561: 1, L0764: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0790: 1, L0791: 1, L0792: 1, L0665: 1, H0521: 1, L0779: 1 and L0758: 1.				180-196, 118-134, 8-24, 44- 60
1021	HBGNO49	881968	1031	86 - 496	2436	Pro-16 to Gly-24, Glu-41 to Phe-49, Glu-81 to Gln-95, Arg-104 to Ser-114.	AR052: 18, AR055: 16, AR033: 14, AR053: 12, AR104: 11, AR089: 9, AR096: 8, AR061: 8, AR060: 8, AR039: 0 H0617: 3 and H0428: 1.				50-72
1022	HWAFQ40	882003	1032	149 - 562	2437	Met-1 to Ser-12, Pro-28 to Cys-39.	AR055: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR089: 0, AR096: 0, AR053: 0, AR033: 0, AR104: 0 L0766: 34, S0360: 7,				82-105

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						H0622: 1, H0674: 1, H0316: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, S0002: 1, S0426: 1, L0369: 1, L0770: 1, L0769: 1, L0761: 1, L0772: 1, L0644: 1, L0764: 1, L0521: 1, L0662: 1, L0804: 1, L0774: 1, L0655: 1, L0527: 1, L0663: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, S0126: 1, H0660: 1, S0328: 1, H0539: 1, S0380: 1, H0522: 1, L0740: 1, L0754: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1, S0026: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and H0506: 1.			114-142
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1026	HCEMU86	882164	1036	347 - 787	2441	Pro-83 to Thr-88.	AR104: 6, AR033: 6, AR055: 4, AR039: 3, AR096: 3, AR060: 3, AR089: 3, AR061: 2, AR053: 2, AR052: 2 L0439: 21, L0438: 12, L0769: 9, T0010: 6, H0052: 5, L0776: 4, L0805: 3, S0126: 3, L0741: 3, L0589: 3, H0261: 2, T0006: 2, L0455: 2, L0659: 2, H0519: 2, L0742: 2, L0748: 2, L0751: 2, L0592: 2, S0276: 2, H0583: 1, L0418: 1, S0298: 1, S0001: 1, S0400: 1, L0394: 1, S0222: 1, H0455: 1, H0331: 1, H0156: 1, T0082: 1, N0006: 1, H0570: 1, S6028: 1, H0644: 1, S0036: 1, H0100: 1, L0351: 1, S0352: 1, L0598:				95-118, 51-73, 117-137, 6-23, 31-48

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1027	HKAEF60	882197	1037	137 - 496	2442	Met-2 to Asn-7, Arg-21 to Tyr-29, Gln-33 to Ile-41, Ala-103 to Asp-120.	AR096: 9, AR089: 8, AR104: 8, AR053: 7, AR052: 7, AR060: 5, AR039: 5, AR033: 4, AR055: 4, AR061: 2 H0585: 19, L0747: 15, L0748: 13, L0731: 11, L0777: 10, L0438: 9, H0141: 8, L0755: 8, H0046: 7, L0766: 7, S0003: 6, L0803: 6, L0805: 6, L0439: 6, L0779: 6, L0758: 6, S0360: 5, L0770: 5, L0774: 5, S0126: 5, L0740: 5, L0588: 5, H0545: 4, H0040: 4, L0763: 4, H0144: 4, L0749: 4, L0596: 4, L0485: 4, H0556: 3, H0657: 3, S0358: 3, S0476: 3, H0599: 3, S0010: 3, H0024: 3, H0014: 3, H0622: 3, H0494: 3, S0426: 3, L0776: 3, L0809: 3, S0152: 3, L0752: 3, H0265: 2, S0408: 2, H0574: 2, H0632: 2, S0280:			40-73, 73-99

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1028	HEORN16	882261	1038	431 - 1084	2443	Met-99 to Ala-114, Pro-138 to Arg-143, Thr-169 to Arg-176, Ser-207 to Pro-218.	S0460: 1.	AR033: 4, AR089: 3, AR053: 2, AR060: 2, AR061: 2, AR055: 2, AR096: 1, AR052: 1, AR039: 0, AR104: 0 L0747: 5, L0749: 4, H0657: 3, H0553: 3, L0758: 3, S0040: 2, H0341: 2, L0789: 2, L0748: 2, L0779: 2, L0753: 2, H0542: 2, H0265: 1, H0669: 1, S0418: 1, H0370: 1, H0586: 1, H0497: 1, H0427: 1, H0036: 1, H0253: 1, H0457: 1, H0086: 1, H0081: 1, H0355: 1, S0338: 1, S0340: 1, H0039: 1, H0181: 1, S0366: 1, H0598: 1, H0135: 1, H0063: 1, H0412: 1, H0413: 1, H0652: 1, S0422: 1, S0002: 1, H0529: 1, L0369: 1, L0770: 1, L0772: 1, L0642: 1, L0771: 1, L0521: 1, L0381: 1, H0658: 1, H0666: 1, H0539: 1, H0521: 1, H0522: 1, S0044: 1, H0187: 1, H0436: 1, L0741: 1, L0746: 1, L0777: 1, L0780: 1, H0343: 1, H0595:			40-61, 1-22, 61-77

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1029	HKGBJ74	882285	1039	183 - 530	2444		AR052: 4, AR096: 4, AR053: 4, AR104: 3, AR039: 3, AR089: 2, AR055: 2, AR033: 2, AR060: 1, AR061: 1 H0549: 1 and H0538: 1.			42-58, 98-114
1030	HOSPA48	882296	1040	119 - 1126	2445	Ala-6 to Gly-11, Ser-20 to Ser-30, Ser-60 to Ser-65, Ser-157 to Glu-170, Lys-179 to Asp-184, Ser-285 to Val-290, Pro-306 to Ser-314.	AR053: 1, AR104: 1, AR052: 1, AR089: 1, AR061: 0, AR033: 0, AR096: 0, AR060: 0, AR039: 0, AR055: 0 S0003: 6, L0777: 4, L0752: 4, H0617: 3, H0553: 2, H0124: 2, L0804: 2, L0757: 2, H0662: 1, S0045: 1, H0266: 1, S0214: 1, H0598: 1, L0666: 1, S0126: 1, H0651: 1, L0588: 1 and H0422: 1.			317-336, 131-147, 30-46, 201-217
1031	HWHQN16	882307	1041	124 - 1023	2446	Met-1 to Tyr-17.	AR055: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 1, AR039: 1, AR089: 1, AR096: 1, AR052: 1 L0748: 12, H0521: 11, L0755: 9, S0474: 8, L0662: 7, S0436: 7, L0596: 6,			213-245, 184-211, 100-130, 133-156, 247-267, 162-181

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1035	HMAIH15	882500	1045	105 - 734	2450	Gln-32 to Leu-40, Asn-177 to Trp-182.	AR096: 2, AR039: 2, AR033: 2, AR060: 2, AR053: 1, AR089: 1, AR061: 0, AR055: 0, AR052: 0, AR104: 0 S0278: 1					186-210, 1-24, 76-102, 137-154, 38-56, 58-77, 156-172
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1038	HLHAN77	882559	1048	144 - 581	2453	Phe-17 to Asp-37, Thr-51 to Leu-67, Asn-70 to Thr-78.	AR096: 2, AR055: 1, AR053: 1, AR089: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR033: 0 T0006: 2, L0439: 2, L0750: 2, L0785: 1, S0360: 1, S0222: 1, H0586: 1, L0622: 1, H0620: 1, H0024: 1, H0594: 1, H0606: 1, L0770: 1, L0771: 1, L0794: 1, L0649: 1, L0805: 1, L0653: 1, L0659: 1, L0791: 1, L0666: 1, L0753: 1 and L0758: 1.			76-108	
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1041	HEMDM16	882648	1051	15 - 677	2456	Phe-10 to Lys-15.	AR089: 18, AR096: 17, AR060: 16, AR104: 13, AR033: 13, AR039: 12, AR052: 11, AR053: 9, AR055: 7, AR061: 5 L0759: 8, L0731: 7, H0521: 5, L0005: 4, S0358: 3, L0157: 3, L0757: 3, S0046: 2, H0494: 2, L0662: 2, L0740: 2, L0755: 2, H0657: 1, H0341: 1, H0663: 1, H0638: 1, S0376: 1, S0132: 1, H0549: 1, H0586: 1, H0590: 1, H0024: 1, H0071: 1, H0083: 1, H0252: 1, H0090: 1, H0591: 1,			162-178

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1042	HODGL52	882663	1052	62 - 517	2457	Ser-120 to Ala-125, Glu-143 to Tyr-152.	AR089: 13, AR055: 11, AR060: 9, AR096: 8, AR033: 7, AR061: 7, AR053: 5, AR052: 5, AR039: 5, AR104: 2 H0046: 6, L0770: 6, H0402: 5, L0749: 5, L0731: 5, S0358: 4, L0771: 4, L0740: 4, H0617: 3, L0769: 3, L0783: 3, H0670: 3, L0747: 3, S0192: 3, S0476: 2, H0549: 2, H0581: 2, H0271: 2, H0328: 2, L0772: 2, L0532: 2, L0663: 2, L0438: 2, H0684: 2, H0539: 2, L0748: 2, L0439: 2, L0750: 2, L0757: 2, H0624: 1, L0785: 1, H0580: 1, S0046: 1, S0132: 1, H0351: 1, H0370: 1, H0455: 1, H0299: 1, H0586: 1, H0331:				52-76, 86-106, 9-25, 29-45

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1043	HSLGA24	882690	1053	83 - 490	2458	Pro-7 to Arg-12, Glu-18 to Ser-24, Ser-32 to Glu-38, Asp-103 to Arg-111.	AR089: 13, AR096: 9, AR052: 7, AR053: 5, AR060: 5, AR033: 5, AR039: 4, AR104: 4, AR055: 3, AR061: 2 S0028: 1			112-136, 42-62
1044	HMHBT84	882784	1054	406 - 948	2459	Met-1 to Leu-6, Pro-13 to Ala-18,	AR055: 12, AR096: 8, AR060: 5, AR089: 5,			19-38, 118-135,

	Ser-75 to Trp-82.	AR039: 4, AR033: 4, AR052: 4, AR061: 4, AR104: 3, AR053: 3 H0556: 15, L0666: 5, L0438: 5, L0439: 5, L0665: 4, L0751: 4, L0777: 4, H0161: 3, H0645: 3, H0599: 3, H0266: 3, L0763: 3, L0747: 3, L0758: 3, L0759: 3, H0423: 3, H0265: 2, H0141: 2, S0045: 2, H0575: 2, H0421: 2, H0594: 2, H0264: 2, L0770: 2, L0771: 2, L0657: 2, L0664: 2, H0670: 2, H0518: 2, S0044: 2, H0436: 2, L0749: 2, L0757: 2, L0588: 2, L0599: 2, S0446: 2, H0585: 1, H0717: 1, H0716: 1, H0583: 1, S0116: 1, H0341: 1, H0254: 1, H0255: 1, H0306: 1, H0402: 1, S0360: 1, S0408: 1, S0046: 1, S0132: 1, S0476: 1, H0619: 1, H0549: 1, H0550: 1, S0222: 1, H0614: 1, H0392: 1, H0455: 1, H0613: 1, H0586: 1, H0587: 1, S0005: 1, H0492: 1, H0486: 1, H0250: 1, T0071: 1, H0581: 1,			46-63, 86-102	

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			107 - 433						
		1055							
	882799								
1045	HHEDW60				AR039: 39, AR053: 30, AR052: 26, AR033: 23, AR096: 21, AR104: 21, AR089: 17, AR060: 15, AR055: 13, AR061: 10 L0777: 7, L0747: 5,				58-75

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1046	HNGNU93	882805	1056	221 - 811	2461	Leu-43 to Ser-52, Lys-84 to Lys-89, Lys-191 to Pro-197.	AR055: 8, AR060: 7, AR053: 6, AR089: 6, AR052: 5, AR096: 5, AR033: 5, AR061: 4, AR104: 4, AR039: 2 H0031: 5, H0581: 3, H0650: 2, H0486: 2, H0013: 2, S0152: 2, H0521: 2, L0748: 2, S0260: 2, H0265: 1, H0556: 1, S0114: 1, S0045: 1, H0437: 1, S0280: 1, H0050: 1, T0079: 1, H0510: 1, H0286: 1, H0169: 1, H0068: 1, H0598: 1,			125-141

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1047	HARMS29	882813	1057	100 - 423	2462	Pro-29 to Pro-41.	AR096: 4, AR053: 3, AR039: 2, AR055: 2, AR089: 2, AR033: 2, AR061: 2, AR060: 2, AR052: 1, AR104: 1 H0592: 1, T0048: 1, L0770: 1 and L0756: 1.			53-74, 1-17
1048	HAMHH25	882839	1058	123 - 569	2463	Thr-12 to Ser-18, Gly-88 to Leu-93, Gly-131 to Gln-144.	AR039: 26, AR053: 19, AR052: 18, AR033: 15, AR089: 14, AR096: 14, AR055: 13, AR104: 13, AR060: 10, AR061: 7 H0560: 1			53-69
1049	HLCLA47	882849	1059	138 - 662	2464		AR033: 2, AR060: 1, AR096: 1, AR089: 1, AR053: 1, AR061: 1, AR104: 0, AR055: 0, AR039: 0 H0717: 3, H0624: 2, S0140: 2, H0050: 2, H0622: 2, H0551: 2, H0520: 2, S0001: 1, H0662: 1, S0418:			66-93, 40-59, 101-119

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1050	HDPSO06	882888	1060	76 - 1269	2465	Met-1 to Glu-6, Leu-36 to Arg-41, Leu-62 to Gly-67, Lys-115 to Tyr-129, Asn-151 to Asp-156, Ala-178 to His-185, Pro-215 to Met-220, Lys-232 to Asn-238, Glu-261 to Pro-266, Asn-277 to Ser-284, Asn-314 to Lys-319, Asp-367 to Lys-377, Lys-391 to His-398.	AR053: 1, AR104: 1, AR033: 1, AR061: 0, AR089: 0, AR096: 0, AR039: 0, AR060: 0, AR052: 0 H0521: 6, H0553: 3, S0040: 1, H0661: 1, H0580: 1, S0222: 1, H0392: 1, H0586: 1, H0486: 1, H0184: 1, H0510: 1, H0428: 1, H0100: 1, H0130: 1, S0002: 1, S0426: 1, H0529: 1, H0520: 1, S0126: 1, L0748: 1, L0740: 1, L0754: 1, L0758: 1, H0667: 1 and H0542: 1.				71-95, 95-111
1051	HFXKG51	882935	1061	559 -	2466	His-10 to Asn-21,	AR096: 4, AR053: 3,				94-116,

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1052	HE9PQ22	882969	1062	138 - 476	2467		AR053: 24, AR033: 23, AR052: 22, AR055: 22, AR061: 18, AR089: 18, AR060: 12, AR039: 10, AR096: 10, AR104: 7 L0157: 7, L0750: 4, H0295: 2, H0341: 2, S0420: 2, T0109: 2, L0769: 2, L0774: 2, L0777: 2, S0046: 1, S0278: 1, H0549: 1, H0081: 1, H0124: 1, H0560: 1, L0772: 1, L0662: 1, L0768: 1, L0775: 1, L0655: 1, L0518: 1, L0791: 1, H0144: 1, H0651: 1, H0696: 1, H0187: 1, L0754: 1, L0755: 1 and H0422: 1.			94-113, 64-80, 10-26
1053	HELEL31	882980	1063	115 - 495	2468	Met-1 to Leu-6, Leu-56 to Trp-67.	AR089: 15, AR052: 14, AR096: 13, AR060: 12, AR033: 12, AR039: 11, AR055: 10, AR104: 10, AR053: 9, AR061: 4 L0438: 3, L0751: 3, L0747: 3, L0757: 3, H0251:	1q24	107300, 131210, 136132, 145001, 173610, 601518, 601652	66-93, 29-47

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1054	HTLGQ83	882989	1064	814 - 2	2469	Pro-10 to Ser-16, Asp-31 to Met-43, Ala-113 to Arg-118.	AR089: 15, AR033: 13, AR052: 11, AR053: 10, AR060: 9, AR096: 8, AR055: 8, AR061: 4, AR104: 3, AR039: 3 H0046: 22, L0748: 9, H0556: 7, L0766: 6, L0439: 6, H0619: 5, H0620: 5, L0777: 5, H0013: 4, H0135: 4, L0659: 4, H0672: 4, L0754: 4, L0595: 4, H0543: 4, H0550: 3, H0253: 3, H0052: 3, H0050: 3, H0024: 3, T0006: 3, H0617: 3, T0041: 3, H0130: 3, L0520: 3, L0769: 3, L0776: 3, L0665: 3, H0539: 3, L0758:				237-253, 66-82, 196-212, 119-135

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1055	HETJU23	883007	1065	518 - 1120	2470	AR055: 9, AR061: 8, AR033: 6, AR060: 6, AR052: 5, AR089: 4, AR053: 3, AR039: 2, AR096: 1, AR104: 1 L0749: 5, L0794: 3, H0658: 3, L0777: 3, H0046: 2, L0803: 2, L0666: 2, L0663: 2, L0438: 2, H0556: 1, H0329: 1, H0351: 1, H0253: 1, H0014: 1, T0023: 1, H0038: 1, H0477: 1, H0412: 1, L0370: 1, L0763: 1, L0769: 1, L0639: 1, L5566: 1, L0800: 1, L0768: 1, L0649: 1, L0804: 1, L0650: 1, L0776: 1, L0367: 1, L0665: 1, H0435: 1, H0670: 1, H0666: 1, H0522: 1, L0747: 1 and L0759: 1.					159-175, 59-75, 31-47, 80-96
1056	HNGKB25	883012	1066	140 - 508	2471	AR089: 4, AR055: 4, AR033: 4, AR052: 4, AR096: 3, AR060: 3, AR053: 3, AR061: 3, AR039: 0, AR104: 0 S0114: 1, H0376: 1,						54-74, 10-26, 33-49, 80-96

1057	HADAM67	883039	1067	86 - 634	2472	Ser-50 to Ser-57, Thr-73 to Leu-91, Pro-101 to Ser-110, Glu-116 to Phe-126.	S0428: 1 and L0748: 1.					127-155
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							AR039: 4, AR096: 3,					26-45, 59-
1058	HDQPJ82	883055	1068	103 -	2473	Ala-15 to Gln-20,						

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1059	HHFFX31	883056	1069						

1060	HHESF39	883067	1070	13 - 681	2475		H0543: 1 and H0423: 1.			69-93, 174-198, 45-67, 1-17, 144-160
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1061	HTLHB93	883085	1071	8 - 343	2476	Ser-10 to Leu-18.	AR096: 2, AR055: 1, AR061: 1, AR060: 1, AR033: 1, AR089: 1, AR039: 0, AR052: 0, AR053: 0, AR104: 0 H0618: 1 and L0758: 1.			60-101, 19-44, 79-101
1062	HDTJA78	883094	1072	26 - 553	2477	Pro-3 to Ser-9, Thr-71 to Lys-79, Ala-132 to Gly-139, Asn-144 to Leu-152.	AR096: 1, AR089: 1, AR055: 1, AR033: 1, AR061: 1, AR053: 0, AR039: 0, AR052: 0, AR060: 0, AR104: 0 L0764: 5, L0742: 4, L0439: 3, L0740: 3, L0747: 3, L0755: 3, S0408: 2, H0486: 2, H0581: 2, L0794: 2, L0809: 2, H0672: 2, L0748: 2, L0750: 2, H0686: 1, H0393: 1, H0178: 1, H0620: 1, H0212: 1, T0067: 1, L0769: 1, L0637: 1, L0644: 1, L0766: 1, L0803: 1, L0774: 1, L0775: 1, L0376: 1, L0805: 1, L0655: 1, L0783: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, L0749: 1, L0752: 1, L0758: 1, L0759: 1 and H0343: 1.			43-70, 25-43, 104-121, 85-101
1063	HNGPL75	883101	1073	197 -	2478	Met-1 to Pro-7.	AR055: 8, AR060: 6,			46-65, 76-

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1064	HNTDV93	883131	1074	37 - 978	2479	Cys-9 to Asp-15.	AR039: 5, AR089: 3, AR104: 3, AR033: 3, AR053: 2, AR060: 2, AR055: 1, AR052: 1, AR061: 1, AR096: 0 L0766: 5, H0318: 3, H0519: 3, L0754: 3, H0013: 2, H0040: 2, L0794: 2, S0152: 2, L0601: 2, H0624: 1, H0556: 1, H0686: 1, T0049: 1, H0650: 1, H0656: 1, S0420: 1, S0358: 1, H0587: 1, H0486: 1, H0575: 1, H0457: 1, H0628: 1, H0212: 1, H0413: 1, H0059: 1, H0494: 1, H0646: 1, S0426: 1, L0772: 1, L0526: 1, L0789: 1, L0664: 1, L0438: 1, H0547: 1, H0689: 1, H0660: 1, H0522: 1, S0404: 1, L0439: 1, L0751: 1, L0759: 1, L0596: 1, L0591: 1 and L0593: 1.			63-97, 24-51, 164-186, 117-135, 206-222, 274-290, 93-109, 225-241

1065	HNSMB73	883132	1075	73 - 444	2480		AR039: 39, AR033: 17, AR104: 15, AR053: 15, AR052: 15, AR089: 13, AR096: 12, AR055: 11, AR060: 10, AR061: 6 S0408: 7, S0442: 4, S0360: 4, L0646: 4, H0675: 3, L0764: 3, L0803: 3, S0444: 2, H0574: 2, S0440: 2, L0761: 2, L0662: 2, L0805: 2, L0791: 2, S0374: 2, H0521: 2, L0752: 2, S0436: 2, L0596: 2, H0686: 1, S0354: 1, S0358: 1, S0376: 1, H0147: 1, H0046: 1, H0014: 1, H0494: 1, L0065: 1, L0772: 1, L0642: 1, L0776: 1, L0809: 1, L0529: 1, L0790: 1, H0689: 1, H0648: 1, S0406: 1 and L0755: 1.			94-112, 64-82, 7-25, 31-47
1066	HTLGL03	883142	1076	301 - 951	2481	Ser-117 to Ser-123, Gly-141 to Tyr-150.	AR055: 8, AR089: 4, AR033: 4, AR060: 4, AR061: 4, AR053: 4, AR052: 4, AR039: 4, AR096: 3, AR104: 2 L0439: 10, L0747: 10, L0794: 8, L0754: 8, L0731: 7, H0046: 6, L0759: 6, L0771: 5, L0773: 5, L0809:			188-213, 62-78

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1067	HGBCN41	883149	1077	436 - 876	2482	Glu-2 to Phe-18, Pro-20 to Leu-27.	AR060: 437, AR055: 303, AR061: 241, AR033: 235, AR104: 229, AR089: 173, AR039: 161, AR053: 108, AR052: 105, AR096: 64 L0659: 8, H0046: 7, L0752: 5, L0666: 4, H0549: 3, L0794: 3, L0758: 3, H0012: 2, L0763: 2, L0766: 2, L0647: 2, L0788: 2, S0192: 2, H0369: 1, H0618: 1, H0318: 1, H0596: 1, H0105: 1, H0015: 1, H0073: 1, H0510: 1, H0615: 1, H0622: 1, T0023: 1, H0598: 1, H0063: 1, H0494: 1, L0640: 1, L0631: 1, L0662: 1, L0805: 1, L0809: 1, L0787: 1, L0789: 1, L0532: 1, L0663: 1, L0664: 1, L0665: 1, H0689: 1, S0146: 1, H0478: 1, S3012: 1,			36-55, 59-75

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1068	HWMBU89	883172	1078	149 - 652	2483	AR052: 10, AR053: 8, AR033: 7, AR055: 7, AR089: 7, AR039: 7, AR060: 6, AR096: 5, AR104: 4, AR061: 4 L0771: 3, L0803: 3, L0748: 3, L0754: 3, S0376: 2, H0658: 2, L0743: 2, L0747: 2, L0777: 2, L0755: 2, H0707: 2, L0591: 2, H0686: 1, H0685: 1, S0358: 1, H0356: 1, H0494: 1, S0440: 1, H0641: 1, L0800: 1, L0774: 1, L0789: 1, H0684: 1, L0749: 1, L0601: 1 and L0603: 1.						9-32, 34-58
1069	HSEBA38	883175	1079	41 - 991	2484	Met-1 to Phe-10, Ala-76 to Asn-82, Gln-274 to Glu-280, Gln-288 to Arg-296.	AR053: 15, AR033: 12, AR052: 10, AR096: 10, AR060: 9, AR089: 8, AR104: 5, AR061: 5, AR039: 4, AR055: 3 L0748: 12, H0436: 4, H0265: 3, H0556: 3, S0116: 3, H0581: 3, H0050: 3, H0199: 3, H0038: 3, H0634:	22q11.2-qter					82-99, 208-224, 134-150, 228-244

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1070	HEEAX26	883176	1080	281 - 1666	2485	Gly-39 to Thr-44, Asn-51 to Thr-62, Pro-88 to Pro-104, Ser-109 to Ser-114.	AR096: 148, AR052: 102, AR089: 99, AR060: 78, AR053: 69, AR104: 35, AR039: 34, AR033: 33, AR061: 29, AR055: 11 L0748: 12, H0436: 4, H0265: 3, H0556: 3, S0116: 3, H0581: 3, H0050: 3, H0199: 3, H0038: 3, H0634: 3, H0623: 3, H0641: 3, H0521: 3, L0747: 3, H0543: 3, S0040: 2, H0580: 2, H0592: 2, H0618: 2, S0474: 2, H0421: 2, H0510: 2, H0644: 2, T0041: 2, L0439: 2, L0754: 2, L0759: 2, S0031: 2, H0136: 2, H0583: 1, H0656: 1, H0255: 1, S0356: 1, S0376: 1, H0393: 1, H0351: 1, H0549: 1, H0431: 1, H0392: 1, H0409: 1, H0642: 1, H0559: 1, T0109: 1, H0013: 1, H0069: 1, H0635: 1, H0253: 1, H0318: 1, H0123: 1, H0047: 1, H0197: 1, H0024: 1, S0051: 1, H0687: 1, H0290: 1, S0250: 1, H0328: 1,			257-274, 196-213, 61-77, 282-298

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1071	HSXCV48	883211	1081	352 - 690	2486	Arg-63 to Arg-71.	AR052: 2, AR089: 2, AR033: 1, AR096: 1, AR055: 1, AR104: 1, AR060: 1, AR061: 0, AR053: 0, AR039: 0 S0051: 5, L0666: 4, S0388: 3, L0438: 3, S0036: 2, L0774: 2, L0805: 2, H0593: 2, H0670: 2, L0748: 2, L0752: 2, S0434: 2, S6024: 1, H0294: 1, S0030: 1, S0442: 1, S0360: 1, H0406: 1, S0010: 1, L0040: 1, H0012: 1, H0620: 1, H0014: 1, S0048: 1, T0010: 1, H0673: 1, H0038: 1, H0494: 1, L0770: 1, L0769: 1,			

							L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1.			
1072	HTLAG19	883219	1082	107 - 1120	2487	Met-1 to Leu-6, Phe-48 to Gly-54, Cys-99 to Arg-104, Pro-258 to Ser-263, Arg-303 to Thr-309.	AR033: 7, AR055: 5, AR061: 4, AR060: 3, AR089: 3, AR053: 3, AR052: 3, AR096: 3, AR039: 2, AR104: 2 H0253: 11, L0439: 6, L0794: 5, L0809: 5, L0758: 4, H0618: 3, L0766: 3, L0803: 3, H0393: 2, L0783: 2, L0438: 2, H0341: 1, S0420: 1, S0358: 1, H0730: 1, S0474: 1, S0362: 1, H0510: 1, H0181: 1, L0769: 1, L0542: 1, L0789: 1, H0187: 1, L0743: 1, L0779: 1 and L0777: 1.			189-212, 5-21
1073	HISBV17	883238	1083	10 - 594	2488		AR052: 4, AR053: 4, AR033: 3, AR039: 2, AR104: 2, AR089: 1, AR055: 1, AR061: 1, AR060: 1, AR096: 1			126-154, 169-190, 57-73, 87-103, 2-18
1074	HFKLN07	883248	1084	700 - 1323	2489	Arg-22 to Asn-32, Arg-59 to Phe-83, Glu-197 to Asp-203.	AR039: 26, AR104: 13, AR096: 12, AR033: 12, AR055: 12, AR053: 12,			120-138, 160-177

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						Thr-3 to Thr-11,	AR039: 12, AR055: 11,				
1075	HTLID36	883250	1085	22 - 420	2490						

						Pro-51 to Gly-58.	AR053: 9, AR033: 8, AR089: 7, AR052: 7, AR060: 7, AR061: 5, AR096: 5, AR104: 4 H0618: 1 and H0038: 1.			
1076	HSLHV27	883287	1086	127 - 960	2491		AR060: 3, AR061: 1, AR033: 1, AR039: 1, AR104: 1, AR055: 1, AR096: 1, AR089: 1, AR053: 0, AR052: 0 S0028: 1			114-143, 255-278, 154-179, 34-61, 2-21, 85-101, 66-82, 233-249, 208-224
1077	HSLJG70	883295	1087	193 - 819	2492		AR089: 3, AR039: 3, AR060: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1, AR033: 1, AR104: 1 H0550: 1 and S0390: 1.			121-145, 143-166, 53-75, 2-28, 26-46, 94-110, 171-187
1078	HSFAK30	883301	1088	300 - 1052	2493	Thr-97 to Ile-105, Phe-111 to Tyr-116, Gly-139 to Thr-147, Leu-155 to Tyr-161, Thr-177 to Gln-189.	AR089: 14, AR053: 10, AR055: 9, AR033: 9, AR060: 9, AR052: 8, AR096: 7, AR061: 6, AR039: 4, AR104: 3 L0749: 4, L0770: 2, H0254: 1, H0662: 1, L0534: 1, L0562: 1, S0442: 1, H0154: 1, S0002: 1, L0385:			197-226, 10-26

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1079	HTTBM62	883307	1089	15 - 1493	2494		AR061: 9, AR055: 8, AR033: 4, AR052: 4, AR060: 4, AR089: 3, AR053: 3, AR104: 2, AR096: 2, AR039: 1 H0046: 6, L0717: 2, L0770: 2, L0769: 2, L0666: 2, H0265: 1, H0556: 1, S0342: 1, H0346: 1, H0459: 1, S0418: 1, L0103: 1, S0300: 1, H0600: 1, H0587: 1, H0642: 1, H0331: 1, H0486: 1, H0069: 1, H0421: 1, H0597: 1, H0083: 1, L0052: 1, H0673: 1, H0040: 1, H0272: 1, H0529: 1, L0637: 1, L0653: 1, L0512: 1, L0659: 1, L0809: 1, H0547: 1, H0519: 1, H0593: 1, H0683: 1, S0378: 1, S0406: 1, H0555: 1, L0741: 1, L0747: 1, L0753: 1, S0031: 1, L0604: 1, S0011: 1 and S0424: 1.			262-282, 100-116, 75-91
1080	HFCDT23	883327	1090	74 - 394	2495		AR053: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 3, AR055: 3, AR033: 3, AR104: 3,			75-107, 42-62, 1-18, 21-37, 66-82

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1081	HDPGU86	883328	1091	400 - 789	2496	AR096: 5, AR039: 4, AR104: 3, AR053: 3, AR052: 3, AR089: 2, AR055: 2, AR033: 2, AR061: 2, AR060: 1 L0766: 5, S0418: 4, H0135: 3, H0144: 3, S0152: 3, L0439: 3, L0777: 3, L0758: 3, H0009: 2, L0769: 2, L0771: 2, L0378: 2, L0663: 2, H0547: 2, L0740: 2, L0751: 2, S0436: 2, L0485: 2, H0556: 1, S0134: 1, H0657: 1, H0484: 1, S0420: 1, S0354: 1, L0717: 1, S0222: 1, H0270: 1, T0039: 1, L0021: 1, H0263: 1, H0620: 1, H0266: 1, H0687: 1, H0252: 1, H0604: 1, H0628: 1, H0617: 1, H0606: 1, H0264: 1, H0100:				

					1, H0560: 1, H0561: 1, L0796: 1, L0639: 1, L0646: 1, L0764: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0558: 1, L0783: 1, L0383: 1, L0519: 1, L0789: 1, L0793: 1, L0666: 1, L0438: 1, H0519: 1, H0435: 1, S0328: 1, H0539: 1, H0521: 1, H0696: 1, H0134: 1, L0747: 1, L0779: 1, L0752: 1, L0731: 1, L0593: 1, H0665: 1, S0192: 1 and H0506: 1.				
1082	H2CBE07	883335	1092	598 - 1317	2497	Lys-219 to Asn-232, Pro-235 to Ala-240.	AR104: 1, AR053: 1, AR089: 1, AR061: 1, AR060: 0, AR055: 0, AR052: 0, AR033: 0, AR096: 0, AR039: 0 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2,				196-219, 66-85, 25-47, 148-166, 121-138, 166-182

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1083	HFIHS04	883358	1093	42 - 755	2498	Pro-30 to Ser-38, Gly-69 to Leu-79, Thr-147 to Gly-158, Tyr-220 to Glu-238.	AR096: 7, AR089: 4, AR061: 4, AR060: 3, AR033: 3, AR052: 3, AR104: 3, AR039: 2, AR055: 1, AR053: 1 L0748: 5, S0276: 3, S0410: 2, H0012: 2, H0024: 2,			

						H0521: 2, L0439: 2, H0662: 1, S0420: 1, S0358: 1, S0132: 1, H0431: 1, H0586: 1, H0486: 1, H0013: 1, H0575: 1, H0090: 1, S0438: 1, H0509: 1, L0518: 1, H0539: 1, S0434: 1, S0242: 1 and S0194: 1.				110-129
1084	HTXLP33	883359	1094	67 - 486	2499	Gln-55 to Asn-65.	AR055: 7, AR053: 7, AR052: 6, AR033: 5, AR096: 4, AR039: 4, AR089: 4, AR061: 4, AR060: 3, AR104: 2 S0328: 4, H0556: 3, L0438: 2, L0742: 2, L0777: 2, H0170: 1, H0083: 1, H0598: 1, H0616: 1, L0770: 1, L0766: 1, L0655: 1, L0779: 1, H0445: 1 and L0608: 1.				
1085	HMEKG76	883364	1095	265 - 1125	2500	Glu-2 to Arg-10, Lys-18 to Lys-28, His-76 to Gly-84, Ser-101 to Gln-116, Asp-194 to Glu-199, Pro-239 to Ala-245, Asp-257 to Ser-272.	AR033: 7, AR055: 5, AR052: 5, AR053: 5, AR089: 4, AR060: 4, AR061: 3, AR096: 3, AR104: 3, AR039: 0 H0618: 6, L0769: 5, L0794: 5, L0439: 5, L0747: 5, L0766: 4, L0803: 4, S3014: 4, L0748: 4, L0758:				123-139, 152-168

1086	HTENG02	883375	1096	110 - 607	2501	Tyr-92 to Glu-97.	AR055: 7, AR061: 5, AR033: 4, AR060: 4, AR052: 3, AR089: 3, AR053: 3, AR096: 3, AR104: 1, AR039: 1 H0009: 2, H0031: 2, L0596: 2, H0295: 1, H0341: 1, H0483: 1, S0358: 1, S0410: 1, H0497: 1, H0616: 1, S0440: 1, L0800: 1, L0794: 1, L0649: 1, L0803: 1, L0657: 1, L0791: 1, S0152: 1, L0779: 1, S0436: 1 and H0542: 1.			32-64, 71-89, 98-115
1087	HTOAW80	883376	1097	285 - 1244	2502	Asn-82 to Tyr-87.	AR053: 9, AR096: 7, AR052: 7, AR089: 5, AR055: 4, AR039: 3, AR060: 3, AR104: 3, AR033: 2, AR061: 2 H0506: 4, S0434: 2 and H0264: 1.			13-46, 245-273, 50-73, 205-234, 180-199, 98-114
1088	HAJAW57	883401	1098	47 - 1036	2503	Arg-6 to Gly-28, Lys-35 to His-47, Glu-50 to Lys-63, Leu-65 to Asn-86, Arg-93 to Asn-109, Ser-116 to Asp-136.	AR096: 13, AR033: 12, AR052: 11, AR053: 11, AR089: 10, AR104: 10, AR060: 7, AR039: 4, AR055: 2, AR061: 2 L0754: 15, L0748: 14, L0439: 9, H0543: 9, L0766: 7, L0747: 7, L0779: 7,			238-258, 262-280

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						S0306: 1, S0438: 1, H0509: 1, S0344: 1, H0538: 1, H0529: 1, L0506: 1, L0371: 1, L0637: 1, L0667: 1, L0630: 1, L0764: 1, L0773: 1, L0768: 1, L0364: 1, L5574: 1, L0804: 1, L0774: 1, L0784: 1, L0378: 1, L0806: 1, L0606: 1, L0809: 1, L0791: 1, L0793: 1, L0663: 1, S0052: 1, S0216: 1, H0435: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0522: 1, S0146: 1, S0027: 1, S0032: 1, L0741: 1, L0744: 1, L0751: 1, L0752: 1, L0753: 1, L0755: 1, L0757: 1, S0031: 1, L0608: 1, L0361: 1, S0026: 1, H0665: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1, L0462: 1 and H0352: 1.			
						AR096: 1, AR104: 1, AR060: 1, AR033: 1, AR055: 1, AR089: 1, AR039: 0, AR053: 0, AR061: 0, AR052: 0 H0046: 9, H0038: 2, H0170: 1, H0455: 1, H0486: 1, H0013: 1, S0010: 1,			148-180, 90-109, 191-207, 58-76
1089	HTEHF89	883419	1099	698 - 3	2504	Pro-35 to Cys-46, Pro-48 to Glu-54, Tyr-79 to Ser-85.			

						H0052: 1, H0327: 1, S6028: 1, S0214: 1, H0328: 1, H0040: 1, H0551: 1, H0268: 1, H0560: 1, H0520: 1 and H0519: 1.				84-103, 52-70
1090	HSYBB84	883420	1100	88 - 567	2505	Pro-29 to Cys-40, Pro-42 to Glu-48, Tyr-73 to Ser-79.	AR096: 7, AR033: 5, AR052: 5, AR089: 5, AR060: 4, AR104: 4, AR039: 4, AR053: 4, AR061: 1, AR055: 1 L0439: 11, H0046: 9, L0766: 6, L0777: 5, L0759: 5, L0438: 4, L0740: 4, H0486: 3, L0659: 3, H0539: 3, L0750: 3, S0358: 2, S6028: 2, H0688: 2, H0553: 2, H0038: 2, H0551: 2, L0666: 2, H0547: 2, L0752: 2, L0758: 2, S0434: 2, H0170: 1, H0740: 1, H0638: 1, S0444: 1, S0360: 1, H0455: 1, H0013: 1, H0156: 1, H0575: 1, S0010: 1, H0052: 1, H0327: 1, S0250: 1, S0214: 1, H0328: 1, H0428: 1, H0040: 1, H0268: 1, L0435: 1, H0560: 1, S0352: 1, L0769: 1, L0646: 1, L0662: 1, L0774: 1, L0775: 1, L0776: 1, L0655:				

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1091	HTJMD30	883430	1101	135 - 632	2506	Asn-6 to Gln-38, Gly-41 to Arg-49, Gln-57 to Gln-65, Gln-68 to Thr-74, Ala-76 to Leu-92.	AR052: 2, AR061: 1, AR089: 1, AR104: 1, AR053: 1, AR033: 1, AR060: 1, AR096: 0, AR055: 0, AR039: 0 H0494: 4, H0521: 3, S3014: 3, S0354: 2, S0476: 2, H0083: 2, H0252: 2, H0644: 2, S0126: 2, S0152: 2, S0027: 2, S0028: 2, S0011: 2, H0543: 2, H0556: 1, S0040: 1, H0341: 1, S0282: 1, H0638: 1, S0442: 1, H0580: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, H0497: 1, T0040: 1, T0114: 1, H0156: 1, H0097: 1, H0599: 1, H0024: 1, H0051: 1, H0355: 1, H0266: 1, H0031: 1, H0163: 1, H0634: 1, H0551: 1, H0264: 1, H0488: 1, H0268: 1, H0412: 1, H0056: 1, H0623:			126-143, 148-164

					1, H0561: 1, H0547: 1, H0519: 1, H0593: 1, H0539: 1, H0134: 1, H0436: 1, S3012: 1, H0445: 1, L0593: 1 and H0422: 1.				126-142
1092	HELFG05	883434	1102	1721 - 1296	2507	Pro-2 to Glu-8, Thr-26 to Asp-32, Pro-70 to Arg-77, Ser-89 to Thr-95.	AR104: 1, AR052: 1, AR055: 1, AR033: 1, AR061: 1, AR039: 0, AR089: 0, AR053: 0, AR060: 0, AR096: 0 L0794: 10, L0809: 9, L0750: 9, L0791: 7, L0747: 7, L0758: 6, L0759: 6, H0620: 5, L0749: 5, S0358: 4, H0135: 4, L0769: 4, L0800: 4, L0805: 4, L0659: 4, H0556: 3, L0471: 3, H0040: 3, L0804: 3, S0360: 2, H0393: 2, H0550: 2, H0592: 2, H0333: 2, S0049: 2, H0124: 2, S0438: 2, L0771: 2, L0662: 2, L0803: 2, L4501: 2, H0547: 2, L0779: 2, L0755: 2, L0731: 2, S0434: 2, L0603: 2, H0506: 2, H0713: 1, H0717: 1, H0294: 1, H0662: 1, H0729: 1, S0045: 1, H0607: 1, H0586: 1, H0587: 1, T0040: 1, S0280: 1, H0590:				

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1093	HHEHG38	883493	1103	88 - 1722	2508	Gly-6 to Leu-13, Lys-15 to His-20, Ile-70 to Lys-76, Tyr-145 to Thr-150, Ser-223 to Met-228, Gly-252 to Gly-258, Glu-339 to Tyr-351, Leu-379 to Ile-387, Lys-394 to Thr-404.	AR039: 7, AR061: 6, AR104: 5, AR053: 5, AR096: 5, AR033: 5, AR052: 5, AR055: 4, AR089: 4, AR060: 4 L0779: 1, L0777: 1 and H0542: 1.				

1094	HSLDT25	883540	1104	50 - 679	2509		AR052: 18, AR033: 13, AR096: 12, AR089: 12, AR053: 10, AR060: 7, AR061: 6, AR104: 6, AR055: 6, AR039: 5 S0028: 1			11-38, 59-82, 89-118, 115-138, 145-163
1095	HSDGH19	883575	1105	374 - 697	2510	Pro-5 to Lys-11, Ala-21 to Ser-26, Asp-50 to Thr-56, Cys-90 to Ile-96, Val-103 to Gln-108.	AR096: 25, AR039: 22, AR104: 19, AR089: 18, AR053: 17, AR033: 16, AR052: 14, AR060: 14, AR055: 12, AR061: 7 H0521: 2, S0031: 2, H0305: 1, H0619: 1, H0635: 1, H0318: 1, H0309: 1, H0090: 1, H0059: 1, S0002: 1, H0435: 1 and L0740: 1.			67-90, 31-47
1096	HCEOU19	883591	1106	2 - 373	2511	Asp-21 to Cys-41, Pro-43 to Leu-51, Ala-111 to Trp-118.	AR089: 5, AR053: 5, AR060: 4, AR096: 4, AR033: 3, AR039: 2, AR055: 2, AR061: 2, AR104: 2, AR052: 1 L0751: 4, L0803: 3, H0052: 2, H0125: 1, S0442: 1, H0009: 1, S0003: 1, L0055: 1, L0662: 1, L0774: 1, L0659: 1, L0789: 1, H0214: 1, L0749: 1 and L0605: 1.			72-106, 1-20
1097	HBIMF04	883607	1107	126 -	2512	Met-1 to His-10,	AR053: 4, AR052: 3,			287-303,

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	1253		Leu-51 to Leu-60, Ser-84 to Val-91, Pro-222 to Asp-227, Glu-229 to Leu-236.	AR055: 3, AR033: 3, AR096: 3, AR089: 3, AR104: 3, AR060: 2, AR039: 2, AR061: 2 H0457: 11, L0766: 8, H0436: 5, L0747: 4, H0486: 3, H0620: 3, H0520: 3, H0341: 2, H0255: 2, H0402: 2, S0358: 2, H0581: 2, H0024: 2, H0405: 2, H0617: 2, L0761: 2, L0662: 2, L0768: 2, L0803: 2, L0776: 2, L0663: 2, H0691: 2, H0547: 2, H0555: 2, L0742: 2, L0779: 2, L0731: 2, H0543: 2, H0265: 1, H0584: 1, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0125: 1, S0360: 1, H0549: 1, H0550: 1, H0613: 1, H0600: 1, H0592: 1, H0069: 1, H0618: 1, H0253: 1, H0318: 1, L0738: 1, H0544: 1, H0546: 1, H0009: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0622: 1, H0606: 1, H0135: 1, H0040: 1, H0488: 1, H0494: 1, H0560: 1, S0372: 1, S0002: 1, H0695: 1, L0769:			

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1098	HSKZE56	883619	1108	30 - 1079	2513	AR055: 17, AR033: 9, AR052: 8, AR061: 8, AR060: 7, AR089: 6, AR096: 6, AR104: 6, AR053: 5, AR039: 4 L0749: 6, S0356: 4, S0474: 4, L0748: 4, L0617: 3, S0126: 3, L0754: 3, L0588: 3, S0212: 2, S0045: 2, H0266: 2, H0170: 1, H0265: 1, H0419: 1, H0580: 1, S0046: 1, S0278: 1, S0280: 1, H0156: 1, H0575: 1, H0581: 1, H0123: 1, H0553: 1, L0142: 1, H0090: 1, H0063: 1, H0433: 1, H0641: 1, S0142: 1, L0644: 1, L0764: 1, L0650: 1, L0632: 1, L0787: 1, L0666: 1, H0725: 1, H0539: 1, H0521:				

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1099	HLJBD90	883638	1109	731 - 1324	2514	Ala-2 to Tyr-20.	AR055: 2, AR052: 2, AR053: 2, AR033: 2, AR096: 2, AR039: 2, AR060: 1, AR061: 1, AR089: 1, AR104: 0						130-161
1100	HAUAX28	883675	1110	515 - 967	2515	Phe-85 to Gly-96, Glu-133 to Thr-143.	AR055: 16, AR039: 14, AR053: 11, AR033: 10, AR052: 10, AR060: 10, AR089: 9, AR104: 9, AR096: 8, AR061: 8 L0509: 10, L0766: 6, L0504: 5, L0775: 4, L0499: 3, L0493: 3, L0515: 3, L0511: 3, L0809: 3, L0747: 3, L0502: 2, L0500: 2, L0771: 2, L0510: 2, L0512: 2, L0748: 2, L0439: 2, L0751: 2, L0779: 2, L0752: 2, L0731: 2, L0759: 2, L0593: 2, H0294: 1, H0125: 1, S0418: 1, S0420: 1, L0005: 1, S0358: 1, S0444: 1, S0045: 1, H0549: 1,						96-115, 67-83, 12-28

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1101	HUCPU88	883702	1111	923 - 3	2516	Lys-8 to Arg-18.	AR039: 53, AR053: 31, AR033: 23, AR052: 22, AR089: 20, AR055: 16, AR104: 15, AR096: 14, AR060: 13, AR061: 10 S0420: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477		279-301	
1102	HFXKJ22	883713	1112	22 - 438	2517		AR096: 5, AR053: 5, AR089: 4, AR052: 4, AR060: 3, AR033: 2,					20-42, 108-127, 1-18, 58-

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1104	HFRAN15	883797	1114	703 - 1347	2519	Tyr-86 to Pro-93, Pro-143 to Ala-151, Leu-178 to Arg-189.	AR096: 4, AR060: 3, AR089: 3, AR053: 2, AR055: 2, AR061: 2, AR033: 2, AR104: 1, AR052: 1, AR039: 0 H0617: 2 and S0050: 1.			16-39, 64-85, 41-60, 99-115, 150-166
1105	HHGCV39	883848	1115	40 - 390	2520		AR052: 24, AR055: 19, AR053: 17, AR096: 17, AR060: 16, AR033: 15, AR104: 15, AR089: 13, AR061: 11, AR039: 8 L0759: 6, L0769: 5, H0052: 4, L0770: 4, L0809: 4, L0439: 4, L0752: 4, S0408: 3, L0751: 3, L0747: 3, L0779: 3, S0007: 2,	19q13.1-q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400,	71-93, 15-31

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1106	HMAFM80	883887	1116	279 - 758	2521						

						AR096: 1, AR053: 0, AR104: 0, AR039: 0 H0457: 3, L0776: 3, H0253: 2, L0769: 2, L0766: 2, S0044: 2, L0731: 2, L0605: 2, H0556: 1, H0449: 1, S0360: 1, H0393: 1, H0586: 1, L0622: 1, H0156: 1, H0706: 1, T0048: 1, H0318: 1, H0052: 1, H0545: 1, H0563: 1, H0081: 1, S0250: 1, H0135: 1, H0038: 1, H0494: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0762: 1, L0662: 1, L0549: 1, L0653: 1, L0807: 1, L0519: 1, L0666: 1, L0665: 1, H0521: 1, S3014: 1, S0027: 1, L0779: 1, L0758: 1, L0593: 1, H0668: 1 and S0398: 1.			125	
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1109	HBING74	883950	1119	639 - 1637	2524	Arg-6 to Val-12, Ala-16 to Asp-21, Ala-52 to Gln-58, Leu-187 to Tyr-192, Arg-282 to Pro-291, Pro-320 to Gly-328.	AR039: 8, AR053: 4, AR033: 4, AR089: 3, AR055: 3, AR096: 3, AR052: 3, AR060: 2, AR104: 2, AR061: 2			
							H0618: 7, H0424: 6,			

							H0422: 1.			
1110	HBIMJ94	883951	1120	76 - 1824	2525	Thr-7 to Asn-13, Arg-55 to Pro-84, Leu-142 to Val-147, Ala-160 to Arg-165, Thr-173 to Thr-182, Asp-207 to Ile-217, Ala-233 to Pro-238, Asp-249 to Asp-261, Glu-264 to Cys-270, Glu-287 to Gly-301, Ala-319 to Pro-326, Val-328 to Gly-334, Pro-344 to Thr-350.	AR039: 16, AR033: 11, AR053: 10, AR096: 9, AR089: 9, AR052: 8, AR104: 7, AR055: 7, AR060: 5, AR061: 5 H0052: 6, L0766: 6, L0748: 5, L0747: 5, H0253: 4, L0769: 4, L0771: 4, L0756: 4, L0758: 4, S0360: 3, H0559: 3, H0124: 3, L0774: 3, L0438: 3, L0779: 3, L0731: 3, H0624: 2, S0212: 2, H0254: 2, H0662: 2, L0617: 2, H0392: 2, H0618: 2, H0123: 2, H0012: 2, H0620: 2, S0002: 2, L0796: 2, L0662: 2, L0803: 2, L0655: 2, L0789: 2, L0070: 2, L0751: 2, H0556: 1, T0002: 1, S0114: 1, H0341: 1, H0483: 1, H0255: 1, S0418: 1, S0354: 1, S0376: 1, S0045: 1, H0411: 1, H0261: 1, H0549: 1, S0222: 1, S0474: 1, S0049: 1, H0194: 1, H0545: 1, H0023: 1, H0024: 1, S0051: 1, H0510: 1, H0238: 1, S0250: 1, T0023: 1, H0553:	22q13.33		532-558, 36-52, 502-518

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1111	HNFCI36	884007	1121	65 - 961	2526	Gly-5 to Gln-12, Arg-34 to Gly-39, Gly-76 to Gly-81, Glu-86 to Ile-93, Phe-97 to Ala-104.	AR104:1085, AR061: 495, AR033: 395, AR060: 388, AR096: 310, AR039: 307, AR055: 297, AR089: 211, AR053: 141, AR052: 130 H0250: 2, L0639: 2, H0590: 1, H0421: 1, H0246: 1, H0373: 1, H0071: 1, H0271: 1, H0646: 1, L0655: 1, L0790: 1, L0664: 1, L0745: 1 and L0581: 1.			

1112	HAFAH26	884076	1122	43 - 1053	2527		AR033: 7, AR060: 5, AR061: 5, AR055: 5, AR089: 4, AR052: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0643: 2, L0803: 2, S0452: 2, T0049: 1, H0580: 1, H0013: 1, H0156: 1, H0581: 1, H0179: 1, H0271: 1, H0040: 1, S0422: 1, L0369: 1, L0766: 1, L0655: 1, L0607: 1, L0791: 1, H0693: 1, H0670: 1, S0380: 1, H0579: 1, L0777: 1, L0752: 1, S0011: 1 and H0653: 1.			27-64, 22-39, 133-149, 186-202, 218-234
1113	HE8MV45	884379	1123	164 - 775	2528	Gln-109 to Gln-115, Gln-149 to Ala-154.	AR052: 6, AR055: 4, AR053: 4, AR060: 3, AR033: 3, AR096: 2, AR039: 2, AR089: 2, AR061: 2, AR104: 2			8-27, 74-90
1114	HUKEQ96	884532	1124	865 - 563	2529	Arg-49 to Ala-55.	AR033: 19, AR104: 18, AR055: 15, AR060: 10, AR052: 9, AR061: 9, AR089: 8, AR053: 8, AR096: 8, AR039: 4 L0439: 58, L0438: 21, H0556: 7, H0052: 7, L0771:			73-89, 1-17

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						1, H0213: 1, H0628: 1, H0617: 1, L0055: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0505: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.				105-123, 143-159
						Met-1 to Ser-12, Pro-47 to Trp-55, Pro-63 to Trp-71, Pro-79 to Trp-87, Pro-95 to Pro-104, Gln-129 to Asp-137, Arg-165 to Gly-170.	AR096: 6, AR053: 5, AR052: 4, AR039: 3, AR055: 2, AR089: 2, AR104: 2, AR033: 1, AR061: 1, AR060: 1 L0769: 8, L0809: 6, L0766: 5, H0318: 4, L0581: 4, H0584: 3, H0545: 3, H0521: 3, L0748: 3, S0360:				
1115	HKADF73	884660	1125	514 - 1134	2530					

						1, S0330: 1, H0539: 1, H0522: 1, S0406: 1, H0555: 1, L0756: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1, S0436: 1, S0192: 1, H0542: 1 and S0458: 1.					
1116	HSLEN72	884818	1126	79 - 435	2531	AR052: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0, AR053: 0 S0028: 4, S0031: 3, H0617: 2, S0150: 2, H0381: 1, S0001: 1, S0282: 1, S0045: 1, S0222: 1, S0005: 1, H0331: 1, L0105: 1, S0050: 1, S0051: 1, H0271: 1, H0165: 1, H0056: 1, S0428: 1, S0053: 1 and S0194: 1.				24-58, 95-119, 5-21	
1117	HTXDM64	885098	1127	1274 - 789	2532	AR055: 11, AR053: 8, AR060: 8, AR089: 7, AR096: 7, AR052: 6, AR061: 5, AR104: 5, AR039: 5, AR033: 5 H0305: 6, H0556: 3, L0599: 2, H0265: 1, S0134: 1, S0212: 1, H0632: 1, H0383: 1, L0664: 1, S0152:	Lys-10 to Arg-17, Glu-31 to Ser-37, Thr-62 to Phe-70, Ser-83 to Gly-93.				98-126, 39-61	

							1, L0748: 1 and L0753: 1.			
1118	HAGDJ72	885264	1128	185 - 505	2533	Met-1 to Ser-8, Val-31 to Gly-36, Ser-73 to Ala-83, Ser-97 to Phe-102.	AR055: 10, AR033: 5, AR060: 4, AR053: 4, AR061: 4, AR052: 3, AR089: 2, AR096: 2, AR104: 2, AR039: 1 S0010: 1, L0438: 1, H0659: 1 and L0439: 1.			37-70
1119	HTPHK88	885476	1129	438 - 908	2534	Lys-26 to Glu-49, Lys-121 to Leu-131.	AR055: 9, AR060: 6, AR089: 5, AR033: 4, AR052: 4, AR053: 4, AR061: 4, AR104: 2, AR096: 2, AR039: 2 H0622: 1, H0509: 1, H0144: 1, S0126: 1, L0750: 1 and L0759: 1.			1-27, 52-68
1120	HDPFA53	885596	1130	1038 - 1	2535	Gln-12 to Asp-18.	AR096: 9, AR060: 6, AR089: 5, AR104: 5, AR033: 4, AR039: 4, AR052: 4, AR055: 3, AR061: 2, AR053: 2 L0770: 5, L0751: 4, H0040: 3, L0766: 3, L0758: 3, S0358: 2, H0619: 2, H0266: 2, S0003: 2, H0553: 2, H0056: 2, L0775: 2, L0655: 2, L0665: 2, H0690: 2, H0696: 2, L0748: 2, L0754: 2, L0745: 2, L0777:			295-326, 279-301

						2, L0755: 2, L0731: 2, L0759: 2, H0624: 1, H0650: 1, S0282: 1, H0661: 1, S0442: 1, S0408: 1, H0580: 1, S0222: 1, H0587: 1, H0486: 1, T0114: 1, H0156: 1, L0021: 1, H0003: 1, H0575: 1, H0004: 1, S0346: 1, H0327: 1, H0050: 1, T0010: 1, H0375: 1, H0628: 1, S0036: 1, H0163: 1, H0634: 1, H0494: 1, H0509: 1, H0649: 1, L0598: 1, H0529: 1, L0369: 1, L0764: 1, L0381: 1, L0653: 1, L0776: 1, L0629: 1, H0520: 1, H0682: 1, H0659: 1, H0539: 1, H0521: 1, S0406: 1, H0436: 1, H0540: 1, L0744: 1, L0752: 1, L0596: 1, L0485: 1, S0026: 1, S0194: 1 and H0543: 1.			
1121	HMSDQ93	886043	1131	160 - 459	2536	Ile-26 to Lys-34.	AR052: 19, AR096: 14, AR089: 10, AR039: 7, AR053: 7, AR033: 6, AR060: 4, AR061: 3, AR055: 2, AR104: 1 H0580: 1, H0486: 1, H0328: 1, S0002: 1, S0330: 1 and H0521: 1.			61-78

1122	HSXAD12	886222	1132	341 - 793	2537	Pro-111 to Gly-116, Ala-130 to Trp-142.	AR055: 9, AR052: 8, AR033: 6, AR060: 5, AR096: 5, AR061: 4, AR089: 4, AR039: 4, AR053: 4, AR104: 3 L0794: 10, L0766: 9, L0740: 9, L0749: 8, H0046: 7, L0758: 7, H0521: 6, L0803: 5, S0358: 4, H0457: 4, L0769: 4, L0744: 4, L0439: 4, L0747: 4, L0750: 4, L0779: 4, H0657: 3, H0266: 3, H0553: 3, H0090: 3, H0413: 3, L0770: 3, L0804: 3, L0775: 3, L0659: 3, L0438: 3, H0519: 3, S0152: 3, L0748: 3, L0731: 3, H0445: 3, S0026: 3, H0265: 2, S0212: 2, S0278: 2, H0050: 2, S0440: 2, S0002: 2, L0763: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0809: 2, L0789: 2, S0126: 2, H0659: 2, H0660: 2, S0330: 2, H0539: 2, L0751: 2, L0777: 2, L0757: 2, L0595: 2, H0423: 2, H0624: 1, S0040: 1, H0583: 1, H0341: 1, H0484: 1, S0418: 1, S0420: 1,			5-26, 54-70, 73-89

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1123	HWBAL42	886307	1133	563 - 177	2538	Arg-37 to Arg-46, Ser-71 to Gln-76.	AR052: 13, AR053: 9, AR096: 4, AR089: 4, AR060: 2, AR033: 2, AR104: 2, AR039: 1, AR055: 1, AR061: 1 H0547: 4, H0251: 3, H0521: 3, H0542: 3, H0266: 2, H0040: 2, L0646: 2, L0659: 2, L0665: 2, L0743: 2, L0754: 2, S0116: 1, S0354: 1, S0376: 1, H0580: 1, H0742: 1, H0486: 1, H0575: 1, H0318: 1, H0457: 1, H0084: 1, H0212: 1, H0059: 1, H0509: 1, H0142: 1, S0002: 1, L0764: 1, L0662: 1, L0626: 1, L0766: 1, L0809: 1, H0519: 1, H0672: 1, S0378: 1, S0174: 1, H0626: 1, S0027: 1, L0780: 1, L0755: 1, L0591: 1, S0026: 1, H0665: 1, H0543: 1 and H0422: 1.			48-65
1124	HUJBO10	886364	1134	204 - 1079	2539	Gln-56 to Leu-68, Glu-88 to Asn-95, Glu-122 to Leu-127, Val-136 to Cys-145, Gly-185 to Leu-191, Leu-239 to Lys-252.	AR089: 2, AR053: 2, AR060: 2, AR033: 2, AR104: 2, AR096: 2, AR039: 1, AR055: 1, AR061: 1, AR052: 0 L0779: 3, H0650: 1, H0560: 1, L0770: 1, L0806:			249-282, 274-290, 31-47

						1, L0655: 1, H0444: 1, L0596: 1, L0591: 1 and S0424: 1.					
1125	HMUAP06	886417	1135	1684 - 905	2540	Val-62 to Gly-67, Glu-130 to Leu-135, Glu-164 to Glu-179, Glu-213 to Gly-223.	AR052: 5, AR053: 4, AR039: 3, AR033: 2, AR104: 2, AR089: 2, AR055: 2, AR096: 2, AR061: 2, AR060: 1 S0212: 1, T0114: 1, H0253: 1, H0266: 1, H0644: 1, H0494: 1, H0529: 1, H0435: 1, L0759: 1, L0596: 1 and H0423: 1.				239-255, 138-154, 179-195
1126	HLYCA31	886496	1136	956 - 261	2541	Met-1 to Pro-7, Ser-12 to His-19.	AR039: 25, AR033: 16, AR089: 13, AR104: 12, AR096: 12, AR053: 11, AR052: 10, AR055: 9, AR060: 9, AR061: 7 H0052: 3, L0666: 3, L0758: 3, S0007: 2, H0201: 2, H0090: 2, H0672: 2, L0748: 2, L0747: 2, L0749: 2, L0752: 2, H0445: 2, H0265: 1, S0134: 1, S0212: 1, S0348: 1, S0045: 1, H0393: 1, S0222: 1, T0060: 1, H0013: 1, T0082: 1, H0318: 1, L0471: 1, H0266: 1, L0455: 1, L0456: 1,				175-208

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1127	HETIY94	886524	1137	88 - 612	2542	Pro-15 to Glu-25, Ala-107 to Gln-112.	AR089: 6, AR055: 5, AR060: 5, AR033: 3, AR061: 3, AR052: 3, AR096: 3, AR104: 3, AR053: 2, AR039: 2 L0751: 2, L0803: 1, L0805: 1, S0374: 1, H0658: 1 and L0747: 1.						23-59
1128	HRGBW44	886559	1138	78 - 1259	2543	Glu-7 to Trp-15, Glu-24 to Arg-31, Arg-71 to Pro-80, Glu-91 to Pro-98, Gln-112 to Thr-130, Asp-168 to Leu-175, Lys-202 to Lys-207, Glu-291 to Pro-298, Lys-332 to Ile-340, Asp-343 to Glu-351, Lys-363 to Ser-380, Leu-386 to Ala-393.	AR052: 49, AR096: 28, AR089: 27, AR053: 22, AR060: 20, AR039: 18, AR033: 11, AR061: 9, AR055: 6, AR104: 5 H0617: 6, L0748: 5, L0809: 4, L0581: 4, L0789: 3, L0747: 3, L0779: 3, L0518: 2, S0330: 2, L0743: 2, L0439: 2, L0749: 2, L0750: 2, H0170: 1, H0484: 1, H0497: 1, H0427: 1, H0599: 1, H0618: 1, H0544:						37-56, 306-326, 258-281, 209-225, 178-194, 139-155

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1129	HMTAU01	886593	1139	274 - 1629	2544	His-17 to Arg-24, Asp-46 to Leu-51, Glu-161 to Glu-172, Arg-273 to Glu-284, Pro-291 to Lys-296, Pro-317 to Ala-326, Pro-393 to Pro-410, Glu-416 to Ile-421.	AR053: 4, AR052: 4, AR096: 4, AR089: 3, AR060: 2, AR033: 2, AR055: 1, AR061: 1, AR104: 1, AR039: 0 L0748: 5, H0351: 3, L0794: 3, L0803: 3, L0779: 3, H0423: 3, L0766: 2, L0804: 2, H0686: 1, S0116: 1, S0354: 1, H0411: 1, H0600: 1, H0587: 1, H0486: 1, H0421: 1, H0565: 1, L0060: 1, H0551: 1, H0268: 1, H0059: 1, S0440: 1, H0646: 1, L0800: 1, L0805: 1, L0653: 1, L0776: 1,				101-123, 138-154, 327-343, 365-381, 206-222, 77-93

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1130	HDPVO38	886670	1140	49 - 1644	2545	Pro-46 to Arg-51, Leu-65 to Asp-70, Thr-103 to Pro-113.	AR033: 2, AR089: 2, AR060: 1, AR053: 1, AR039: 1, AR061: 1, AR055: 1, AR052: 0, AR096: 0, AR104: 0 L0794: 6, L0749: 5, L0756: 5, S0192: 5, L0805: 4, L0747: 4, L0752: 4, L0455: 3, H0038: 3, L0770: 3, L0793: 3, L0591: 3, H0046: 2, H0135: 2, L0769: 2, L0637: 2, L0776: 2, L0659: 2, L0518: 2, L0809: 2, L0565: 2, H0522: 2, L0748: 2, S0282: 1, H0664: 1, S0418: 1, S0420: 1, S0007: 1, S0132: 1, H0333: 1, H0486: 1, H0618: 1, S0010: 1, H0596: 1, L0040: 1, L0471: 1, S0051: 1, T0023: 1, H0316: 1, H0494: 1, S0440: 1, H0509: 1, H0647: 1, L0640: 1, L0772: 1, L0800: 1, L0641: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0651: 1,				271-288, 338-355, 128-144, 230-246, 311-327

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1131	HSDKL35	886684	1141	137 - 484	2546						

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					L0790: 1, L0666: 1, L0665: 1, S0053: 1, H0144: 1, H0520: 1, H0435: 1, H0659: 1, H0648: 1, H0539: 1, S0380: 1, S0152: 1, H0522: 1, S0404: 1, S0406: 1, L0747: 1, L0756: 1, L0758: 1, S0260: 1, H0445: 1, L0366: 1, S0011: 1, H0665: 1, S0196: 1 and H0542: 1.				
1132	HTLJA77	886742	1142	213 - 605	2547	Gly-13 to Pro-21, Ser-67 to Pro-73, Gly-92 to Leu-98.	AR055: 12, AR061: 6, AR060: 6, AR033: 6, AR089: 5, AR096: 5, AR052: 5, AR039: 4, AR104: 3, AR053: 3 L0752: 7, L0747: 6, L0666: 5, L0803: 4, L0776: 4, S0222: 3, L0662: 3, L0766: 3, L0777: 3, L0361: 3, S0114: 2, H0254: 2, H0661: 2, S0354: 2, H0618: 2, H0594: 2, H0188: 2, H0424: 2, H0135: 2, L0764: 2, L0805: 2, L0655: 2, L0789: 2, L0532: 2, S0052: 2, L0438: 2, H0521: 2, L0742: 2, L0743: 2, L0754: 2, L0750: 2, L0755: 2, H0422: 2, H0685: 1, S0342: 1, H0713: 1, S0134: 1,			37-67	

						H0583: 1, H0255: 1, H0402: 1, S0358: 1, S0476: 1, L0717: 1, H0392: 1, H0455: 1, H0613: 1, L0586: 1, S0280: 1, L0021: 1, H0706: 1, H0390: 1, H0581: 1, H0251: 1, H0544: 1, H0545: 1, H0046: 1, L0471: 1, T0010: 1, H0028: 1, H0615: 1, H0604: 1, H0673: 1, H0708: 1, H0413: 1, H0102: 1, L0770: 1, L0769: 1, L0772: 1, L0646: 1, L0364: 1, L0794: 1, L0774: 1, L0523: 1, L0806: 1, L0653: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0435: 1, H0658: 1, H0660: 1, H0696: 1, H0576: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0779: 1, L0758: 1, L0366: 1, S0194: 1, H0423: 1, S0458: 1, S0446: 1, H0506: 1 and H0352: 1.			
						AR052: 8, AR053: 7, AR039: 6, AR096: 6, AR033: 5, AR089: 4, AR060: 4, AR055: 4, AR104: 3, AR061: 2			88-107
1133	HCFLJ17	886761	1143	34 - 381	2548	Glu-8 to Glu-18, Glu-32 to Ser-56.				

L0758: 7, S0358: 5, L0362: 5, L0766: 4, L0754: 4, H0423: 4, H0318: 3, H0551: 3, H0529: 3, L0803: 3, H0519: 3, L0750: 3, L0777: 3, H0650: 2, H0369: 2, H0575: 2, S0474: 2, T0110: 2, S0003: 2, H0268: 2, L0770: 2, L0662: 2, L0375: 2, H0144: 2, S0374: 2, S0152: 2, L0780: 2, L0752: 2, L0731: 2, H0445: 2, L0596: 2, L0605: 2, L0599: 2, L0608: 2, H0543: 2, H0624: 1, H0170: 1, H0716: 1, H0657: 1, H0402: 1, S0420: 1, S0442: 1, S0360: 1, H0675: 1, S0045: 1, S0476: 1, L0717: 1, H0600: 1, H0587: 1, H0497: 1, H0574: 1, H0098: 1, H0037: 1, L0105: 1, H0581: 1, H0052: 1, H0544: 1, L0471: 1, H0060: 1, H0328: 1, H0622: 1, L0483: 1, L0055: 1, H0598: 1, H0090: 1, H0040: 1, H0413: 1, H0561: 1, L0638: 1, L0667: 1, L0646: 1, L0794: 1, L0774: 1, L0805: 1, L0655:					

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1134	HNGKM74	886937	1144	26 - 988	2549	Phe-140 to Lys-151.	AR061: 4, AR055: 4, AR053: 4, AR060: 3, AR089: 3, AR052: 3, AR039: 3, AR033: 3, AR096: 3, AR104: 2 L0800: 1 and S0428: 1.			168-190, 97-114, 207-223
1135	HTTJQ27	887007	1145	112 - 666	2550	Pro-2 to Cys-7, Ile-113 to Lys-118, Glu-162 to Ala-170.	AR055: 3, AR061: 3, AR033: 3, AR052: 3, AR089: 3, AR060: 2, AR096: 2, AR104: 2, AR053: 1, AR039: 1 S0250: 3, L0659: 3, H0038: 2, S0002: 2, S0330: 2, S0360: 1, H0604: 1, H0634: 1, L0764: 1, L0766: 1, H0660: 1, S0380: 1 and L0751: 1.			49-66
1136	HBCBF11	887008	1146	80 - 733	2551	Ser-57 to Gly-72, Thr-91 to Gly-96,	AR053: 2, AR089: 2, AR096: 2, AR055: 1,			125-159

						Asn-104 to Gln-112, Asp-119 to Lys-126.	AR052: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 1, AR033: 1 H0592: 2, L0754: 2, S0132: 1, H0370: 1, H0587: 1, S0344: 1, L0665: 1, H0682: 1 and H0555: 1.						
1137	HFOYG86	887019	1147	247 - 570	2552	Arg-26 to Gly-34, Tyr-71 to Lys-77.	AR089: 3, AR096: 3, AR052: 3, AR061: 2, AR060: 2, AR104: 2, AR033: 1, AR055: 1, AR053: 1, AR039: 0 L0777: 2, L0731: 2, L0659: 1 and S0276: 1.						77-102, 47-68
1138	HKGCJ92	887027	1148	504 - 1166	2553	Lys-19 to Val-24, Ser-27 to Asn-37, Asn-82 to Leu-87.	AR039: 3, AR060: 3, AR089: 2, AR096: 2, AR055: 1, AR104: 1, AR033: 1, AR053: 1, AR061: 1, AR052: 0 H0538: 4, S0374: 4, S0444: 2, L0748: 2, S0442: 1, S0358: 1, H0156: 1, L0803: 1, L0774: 1 and L0608: 1.						182-208
1139	HFPAB23	887054	1149	55 - 417	2554	Met-1 to Ile-11, Ser-21 to Val-26, Asn-42 to Asp-50, Gln-57 to Val-66, Gly-88 to Ala-98.	AR052: 7, AR061: 6, AR104: 5, AR055: 5, AR033: 5, AR060: 5, AR089: 4, AR096: 4, AR053: 2, AR039: 2						103-121

					H0171: 2, L0747: 2, H0624: 1, S6016: 1, S0222: 1, S0010: 1, H0620: 1, L0666: 1, L0665: 1 and L0777: 1.				
1140	HWAGL92	887056	1150	769 - 185	2555	Pro-22 to Gly-28, Gln-32 to Gln-38, Ser-60 to Phe-68, Cys-104 to Tyr-110, Lys-163 to Ser-172, Ser-175 to His-182, Gln-185 to Trp-194.	AR096: 16, AR033: 6, AR039: 6, AR053: 6, AR055: 4, AR052: 4, AR089: 4, AR060: 3, AR061: 2, AR104: 2 H0692: 7, L0766: 5, H0393: 3, H0250: 3, H0581: 3, L0779: 3, L0755: 3, S0354: 2, S0408: 2, L0754: 2, S0358: 1, S0376: 1, S0360: 1, H0640: 1, H0574: 1, H0486: 1, H0013: 1, H0004: 1, H0421: 1, H0239: 1, H0252: 1, H0031: 1, H0553: 1, H0644: 1, H0634: 1, S0144: 1, S0344: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, S0374: 1, H0518: 1, S0044: 1, S0404: 1, H0555: 1, L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0599: 1, H0653: 1 and H0506: 1.			127-160, 80-96, 44-60

1141	HADME31	887280	1151	126 - 443	2556		AR096: 6, AR055: 6, AR039: 5, AR089: 5, AR033: 5, AR053: 5, AR060: 5, AR061: 5, AR052: 4, AR104: 3 L0747: 7, L0750: 6, L0770: 4, L0758: 4, L0769: 3, L0774: 2, L0748: 2, L0759: 2, S6024: 1, S0356: 1, S0360: 1, S0408: 1, H0333: 1, H0559: 1, H0486: 1, S0280: 1, H0390: 1, H0545: 1, L0471: 1, S0440: 1, H0641: 1, L0763: 1, L0775: 1, L0783: 1, L0809: 1, H0144: 1, H0690: 1, H0521: 1, S3012: 1, L0749: 1, L0752: 1 and L0590: 1.			88-105
1142	HEGBA84	887341	1152	17 - 1186	2557	Ser-17 to Ser-23, Gly-44 to Pro-50.	AR039: 27, AR033: 17, AR089: 17, AR104: 16, AR053: 16, AR055: 15, AR060: 13, AR052: 12, AR096: 12, AR061: 9 L0769: 5, L0779: 4, L0759: 4, L0770: 3, L0775: 3, L0776: 3, L0439: 3, L0740: 2, L0747: 2, L0777: 2, L0601: 2, S0418: 1, L0429: 1, H0550: 1, H0253: 1, H0081: 1, H0207: 1,			145-162, 116-132

							H0646: 1, L0764: 1, L0773: 1, L0768: 1, L0549: 1, L0381: 1, L0774: 1, L0375: 1, L0783: 1, S0052: 1, H0547: 1, H0658: 1, H0521: 1, H0555: 1, S0028: 1, L0751: 1, L0752: 1 and L0755: 1.			
1143	HWHPM74	887540	1153	116 - 1048	2558	Gln-71 to Tyr-78, Pro-130 to Ser-135.	AR096: 10, AR089: 7, AR060: 5, AR055: 5, AR053: 5, AR061: 5, AR039: 4, AR033: 4, AR104: 3, AR052: 2 H0494: 5, L0777: 3, L0747: 2, H0586: 1, H0587: 1, H0038: 1, L0768: 1, L0389: 1, L0775: 1, L0376: 1, L0806: 1, H0519: 1, S0328: 1, S0330: 1, S3014: 1, L0731: 1 and L0758: 1.			223-260, 18-34
1144	HHEEU21	887582	1154	49 - 1041	2559	Glu-69 to Glu-74, Thr-78 to Arg-85, Lys-100 to Tyr-107, Pro-185 to Thr-194, Arg-249 to Ser-254, Thr-259 to Arg-269, His-289 to Ile-296, Thr-298 to Asp-303, Asn-312 to Ser-322.	AR096: 9, AR053: 7, AR089: 7, AR052: 6, AR060: 4, AR033: 4, AR039: 4, AR055: 3, AR104: 3, AR061: 2 H0422: 4, H0542: 3, H0591: 2, H0423: 2, H0125: 1, H0486: 1, H0634: 1 and H0436: 1.			221-251, 3-19, 49-65

1145	HKLSC61	887803	1155	407 - 757	2560	Lys-14 to Ser-20, Pro-34 to Ser-39, Ser-89 to Ser-95.	AR039: 26, AR052: 20, AR053: 16, AR033: 14, AR104: 13, AR060: 12, AR055: 12, AR096: 12, AR061: 12, AR089: 12 H0251: 1, H0235: 1 and S0050: 1.			39-77, 68-88
1146	HEOMP62	887943	1156	193 - 753	2561	Gln-13 to Lys-20, Lys-26 to Ala-34, Met-72 to Leu-78.	AR039: 38, AR053: 22, AR096: 20, AR104: 19, AR055: 19, AR033: 17, AR052: 15, AR089: 15, AR060: 11, AR061: 7 H0457: 4, L0794: 3, H0580: 2, S0344: 2, L0667: 2, L0809: 2, H0583: 1, S0116: 1, H0581: 1, H0421: 1, H0439: 1, H0179: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, H0710: 1, S0190: 1 and L0747: 1.			36-69
1147	HLJEB18	888028	1157	328 - 1248	2562	Glu-14 to Ser-22, Thr-70 to Arg-76, Gln-90 to Gly-101, Asn-167 to Ser-172, Glu-179 to Ala-186, Val-193 to Gln-200, Leu-210 to Ser-217, Gln-239 to Gln-244, Glu-254 to Asn-266.	AR039: 61, AR104: 30, AR033: 27, AR053: 25, AR096: 23, AR089: 20, AR052: 20, AR055: 16, AR060: 15, AR061: 13 H0584: 26, H0265: 4, H0167: 3, S0114: 3, H0542: 3, H0556: 2, H0486: 2, T0042: 2, H0423: 2, H0575:			276-307, 104-120

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1148	HAMFN18	888042	1158	50 - 412	2563	Ser-31 to Gly-40.	AR096: 6, AR089: 6, AR052: 5, AR053: 5, AR033: 4, AR039: 4, AR055: 4, AR060: 3, AR104: 2, AR061: 2 H0497: 1, H0560: 1, S0028: 1 and H0667: 1.						50-68
1149	HWAEU20	888047	1159	416 - 1183	2564	Ile-74 to Ser-86, Thr-136 to Lys-144, Lys-250 to Glu-256.	AR096: 6, AR033: 5, AR053: 4, AR052: 3, AR039: 3, AR089: 2, AR055: 2, AR061: 1, AR060: 1, AR104: 1 H0581: 1						99-126, 23-42, 1-18, 218-235, 157-173, 52-68
1150	HDPBG11	888121	1160	39 - 734	2565	Val-3 to Pro-8, Val-14 to Ile-19, Pro-23 to Gly-31, Ser-93 to Asp-100.	AR060: 6, AR039: 5, AR055: 5, AR089: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 4, AR052: 2, AR104: 2 S0476: 41, H0271: 33, S0132: 14, H0521: 14, S0046: 13, H0623: 13, H0416: 7, H0634: 6, H0575: 5, H0522: 5, S0436: 5,						38-67

						H0638: 4, H0250: 4, H0641: 4, S0053: 4, H0556: 3, H0437: 3, H0069: 3, H0179: 3, H0551: 3, H0056: 3, L0794: 3, S0052: 3, H0159: 2, H0657: 2, H0663: 2, S0278: 2, H0431: 2, H0457: 2, H0719: 2, L0483: 2, H0649: 2, L0771: 2, L0662: 2, H0689: 2, H0518: 2, L0581: 2, H0713: 1, T0049: 1, H0656: 1, S0298: 1, H0662: 1, S0418: 1, S0442: 1, S0358: 1, H0392: 1, H0442: 1, H0587: 1, H0486: 1, T0109: 1, H0190: 1, H0635: 1, H0042: 1, H0530: 1, H0544: 1, H0545: 1, H0150: 1, S0051: 1, S0316: 1, T0023: 1, H0379: 1, S0016: 1, H0560: 1, H0561: 1, H0509: 1, H0633: 1, S0344: 1, S0426: 1, L0763: 1, L3904: 1, L0761: 1, L0667: 1, L0767: 1, L0649: 1, L0388: 1, L0775: 1, L0806: 1, L0805: 1, L0656: 1, L0809: 1, L0790: 1, L0663: 1, L0665: 1, S0428: 1, S0216: 1, H0435: 1,

							H0666: 1, H0672: 1, S0378: 1, H0528: 1, S0044: 1, H0187: 1, S0032: 1, L0749: 1, L0750: 1, L0759: 1, S0434: 1, L0593: 1 and H0422: 1.			
1151	HHFJI87	888142	1161	204 - 953	2566		AR055: 9, AR039: 5, AR053: 4, AR089: 4, AR060: 4, AR052: 4, AR061: 3, AR033: 3, AR104: 2, AR096: 2 L0666: 6, L0776: 4, H0039: 2, H0622: 2, L0633: 2, L0439: 2, S0354: 1, H0619: 1, H0357: 1, H0590: 1, S0010: 1, H0596: 1, L0644: 1, L0805: 1 and H0144: 1.			136-162, 176-204, 76-95, 108-124, 2-18
1152	HWLEQ41	888156	1162	93 - 950	2567		AR089: 30, AR096: 29, AR104: 25, AR033: 22, AR052: 18, AR053: 14, AR060: 9, AR039: 6, AR055: 5, AR061: 4 S0354: 9, S0358: 3, H0494: 3, H0519: 2, H0521: 2, L0754: 2, H0170: 1, S0040: 1, S0114: 1, H0484: 1, H0483: 1, H0255: 1, S0376: 1, S0046: 1, H0619:			158-177, 132-150, 73-91, 193-209, 228-244, 253-269

							1, H0549: 1, H0042: 1, S0474: 1, H0581: 1, H0052: 1, H0083: 1, L0773: 1, L0517: 1, L0383: 1, S0374: 1, S0152: 1, S3014: 1, L0751: 1, L0759: 1, H0543: 1 and H0422: 1.			
1153	HTOIB37	888174	1163	773 - 1582	2568	Thr-155 to Cys-161, Arg-182 to Arg-194, Leu-209 to Lys-214.	AR060: 57, AR055: 52, AR039: 40, AR104: 39, AR033: 37, AR053: 35, AR089: 30, AR061: 26, AR096: 12, AR052: 6 H0618: 4, H0254: 3, H0255: 3, L0748: 3, H0253: 2, H0617: 2, L0438: 2, L0361: 2, S0442: 1, S0360: 1, S0468: 1, H0370: 1, H0333: 1, H0581: 1, H0252: 1, H0032: 1, H0264: 1, H0413: 1, H0529: 1, L0768: 1, H0672: 1, L0777: 1 and H0542: 1.			76-92, 16-32, 101-117, 34-50, 137-153
1154	HTGBM16	888244	1164	96 - 1118	2569	Ser-74 to Gln-82, Ser-170 to Asn-178, His-186 to Ala-199, Arg-209 to Leu-216.	AR089: 8, AR060: 8, AR096: 7, AR053: 5, AR104: 5, AR033: 5, AR061: 4, AR055: 3, AR039: 3, AR052: 0 L0748: 3, H0494: 2, H0547: 2, S0134: 1, S0278:			231-250, 2-19, 43-59, 100-116

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1155	HOUGB95	888279	1165	73 - 795	2570	Glu-69 to Ser-74, Glu-80 to Asp-88, Phe-98 to Leu-104, Gln-140 to Ala-148, Glu-153 to Leu-158, Ala-175 to Ala-197, Met-210 to Leu-223, Glu-225 to Leu-241.	AR033: 3, AR089: 3, AR061: 3, AR060: 2, AR039: 2, AR096: 1, AR052: 1, AR104: 1, AR055: 1, AR053: 0 S0436: 7, H0551: 6, H0599: 5, L0756: 5, L0758: 5, L0759: 5, L0754: 4, L0747: 4, H0545: 3, S0003: 3, L0375: 3, H0144: 3, L0755: 3, S0442: 2, S0045: 2, H0013: 2, L0471: 2, H0373: 2, H0051: 2, H0560: 2, S0422: 2, L0768: 2, L0803: 2, L0659: 2, L0438: 2, L0439: 2, L0740: 2, L0750: 2, L0779: 2, L0757: 2, S0242: 2, H0739: 1, H0624: 1, S0040: 1, S0342: 1, S0116: 1, S0212: 1, S0444: 1, H0357: 1, H0587: 1, L0021: 1, S0010: 1, L0105: 1, S0474: 1, H0544: 1, H0046: 1, S0051: 1, H0266: 1, H0622: 1, H0032:					

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1156	HTELC21	888321	1166	88 - 453	2571		AR053: 16, AR039: 15, AR033: 13, AR055: 13, AR052: 10, AR089: 10, AR061: 9, AR096: 7, AR060: 7, AR104: 4 H0253: 8, H0038: 4, H0616: 3, H0618: 2, L0758: 2, L0794: 1 and L0779: 1.				
1157	HTPGV36	888376	1167	2639 - 306	2572	Pro-51 to Ala-59.	AR104: 19, AR033: 18, AR089: 12, AR055: 9, AR060: 6, AR061: 6, AR096: 6, AR052: 5, AR053: 5, AR039: 4 H0695: 78, L0747: 13, H0013: 12, L0665: 11, L0662: 10, H0547: 10, L0592: 10, S0360: 8, H0545: 8, L0659: 8, L0666: 8, H0580: 7, S0010: 7, H0519: 7, L0748: 6, L0595:	Xp11.23	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050,	555-575, 536-552, 760-776	

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						1, S0032: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0581: 1, L0593: 1, L0366: 1, H0668: 1, H0665: 1, H0667: 1, S0192: 1, S0194: 1 and H0423: 1.					53-73	
1158	HFTDC58	888528	1168	296 - 604	2573		AR052: 2, AR033: 2, AR053: 2, AR096: 1, AR089: 1, AR060: 1, AR039: 0, AR061: 0, AR104: 0 H0599: 2, S0474: 2, H0266: 2, L0759: 2, H0556: 1, H0638: 1, S0418: 1, H0733: 1, S6022: 1, L0021: 1, S0010: 1, H0581: 1, H0123: 1, H0050: 1, H0024: 1, H0553: 1, H0644: 1, H0708: 1, L0763: 1, L0641: 1, L0766: 1, L0805: 1, L0655: 1, H0539: 1, S0028: 1, L0756: 1 and L0777: 1.					253-282, 201-228, 124-146, 163-179, 231-247	
1159	HMUAG30	888542	1169	1399 - 449	2574	Pro-23 to Pro-36, Asp-54 to Asp-61, Gln-67 to Gly-76.	AR033: 5, AR089: 5, AR061: 4, AR052: 4, AR060: 3, AR055: 2, AR053: 2, AR039: 2, AR104: 2, AR096: 1 H0592: 1, H0497: 1,						

							H0553: 1, H0628: 1, H0488: 1, H0529: 1, S0310: 1, H0435: 1 and L0439: 1.			
1160	HCBME31	888903	1170	79 - 624	2575	Pro-51 to Ser-58.	AR096: 3, AR055: 2, AR089: 1, AR052: 1, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR033: 1, AR039: 1 S0002: 2, L0785: 1, H0661: 1, H0587: 1, H0635: 1, H0051: 1, S0003: 1, S0438: 1, S0344: 1, L0761: 1, L0649: 1, L0792: 1 and L0731: 1.			70-95, 29-45, 1-17
1161	HPMGA51	888905	1171	1129 - 644	2576	Pro-49 to His-57, Pro-64 to Asp-73, Thr-100 to Arg-106, Lys-145 to Glu-151.	AR055: 4, AR096: 3, AR060: 3, AR053: 3, AR104: 2, AR052: 2, AR033: 2, AR089: 2, AR061: 1, AR039: 0 H0031: 2, L0600: 2, H0713: 1, S0052: 1, H0539: 1, S0436: 1 and L0603: 1.			104-131
1162	HDQDC13	888998	1172	5 - 643	2577	Gln-15 to Gly-23.	AR053: 2, AR052: 1, AR033: 1, AR096: 1, AR089: 0, AR060: 0, AR061: 0, AR055: 0, AR104: 0, AR039: 0 L0766: 7, H0556: 6, L0662: 4, L0789: 4, L0438:	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760,	173-189, 105-121

			4, L0748: 4, L0749: 4, L0769: 3, L0776: 3, H0521: 3, S0360: 2, S0007: 2, L0717: 2, H0575: 2, S0036: 2, L0794: 2, L0666: 2, L0663: 2, H0520: 2, H0547: 2, H0555: 2, S0028: 2, L0754: 2, H0422: 2, H0265: 1, T0049: 1, H0657: 1, S0354: 1, H0676: 1, H0645: 1, H0411: 1, S0278: 1, H0370: 1, H0586: 1, H0486: 1, H0013: 1, H0098: 1, H0036: 1, H0052: 1, H0457: 1, H0572: 1, H0081: 1, L0471: 1, L0163: 1, H0039: 1, H0553: 1, L0455: 1, S0366: 1, H0135: 1, H0038: 1, H0551: 1, S0038: 1, H0494: 1, L0763: 1, L0800: 1, L0387: 1, L0803: 1, L0805: 1, L0518: 1, L0809: 1, S0374: 1, H0593: 1, H0660: 1, H0539: 1, H0696: 1, L0612: 1, S0032: 1, L0741: 1, L0742: 1, L0439: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0777: 1, L0757: 1, L0592: 1, L0581: 1, H0668: 1, H0653:	600761, 600761, 602066		

							1, H0423: 1 and L0600: 1.			
1163	HLHFX80	889324	1173	81 - 473	2578	Arg-16 to Ser-25, Phe-30 to Asp-38, Gln-97 to Lys-104, Ser-113 to His-119.	AR039: 2, AR096: 2, AR060: 1, AR053: 1, AR089: 1, AR104: 1, AR033: 1, AR061: 0, AR055: 0, AR052: 0 H0556: 1, L0534: 1, H0431: 1, H0024: 1 and S0428: 1.			61-81
1164	HSLKC45	889371	1174	124 - 1245	2579	Ser-75 to Leu-81, Arg-101 to Ala-112, Gln-162 to Asn-172, Tyr-178 to Leu-197, Glu-204 to Arg-219, Arg-252 to Ile-269, Pro-271 to Asp-280, Glu-297 to Lys-303, Glu-313 to Asn-325, Ser-354 to Gly-365.	AR055: 7, AR033: 7, AR060: 5, AR052: 4, AR089: 4, AR061: 4, AR053: 4, AR096: 3, AR104: 2, AR039: 2 H0545: 2, L0659: 2, H0265: 1, H0556: 1, H0295: 1, S0418: 1, S0420: 1, S0358: 1, L0717: 1, H0635: 1, H0551: 1, T0067: 1, H0494: 1, L0662: 1, L0804: 1, L0809: 1, S0126: 1, H0658: 1, H0521: 1, S0390: 1, L0780: 1, L0731: 1, S0436: 1 and H0423: 1.			220-252, 2-26
1165	HOGBN93	889792	1175	503 - 3	2580	Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Gly-137.	AR039: 42, AR052: 40, AR053: 25, AR033: 24, AR104: 22, AR089: 20, AR096: 17, AR060: 13, AR061: 13, AR055: 12			59-78, 31-51, 95-112, 7-23, 146-162

						H0521: 2, L0770: 1, L0766: 1, H0435: 1 and H0712: 1.				
1166	HTPHE46	889999	1176	96 - 653	2581	Glu-13 to Gln-22, Pro-86 to Asp-91, Arg-98 to Gly-104, Gln-170 to Cys-183.	AR039: 19, AR060: 12, AR096: 10, AR104: 9, AR053: 9, AR055: 9, AR033: 8, AR052: 7, AR089: 7, AR061: 5 S0414: 9, S0422: 7, L0662: 7, S0444: 6, L0748: 4, L0754: 4, L0581: 4, S0442: 3, H0031: 3, L0666: 3, H0656: 2, S0358: 2, S0360: 2, H0013: 2, L0471: 2, S0438: 2, S0440: 2, L0598: 2, L0803: 2, L0540: 2, L0756: 2, L0752: 2, L0758: 2, L0759: 2, S0242: 2, H0624: 1, S0282: 1, H0393: 1, H0586: 1, H0574: 1, H0036: 1, H0004: 1, T0103: 1, T0110: 1, H0571: 1, H0569: 1, H0123: 1, H0594: 1, S6028: 1, H0622: 1, UNKWN: 1, L0649: 1, L0381: 1, L0776: 1, L0659: 1, L0528: 1, L0792: 1, L0793: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0593:				34-58, 63-83

						1, H0690: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, H0555: 1, H0478: 1, L0744: 1, L0731: 1 and S0276: 1.				
1167	HTXQU08	890638	1177	218 - 661	2582	Pro-38 to Arg-44, Leu-88 to His-93, Asp-100 to Ser-106, Pro-119 to Cys-126.	AR055: 7, AR052: 5, AR053: 4, AR089: 4, AR060: 4, AR096: 3, AR061: 3, AR033: 3, AR039: 2, AR104: 1 H0271: 8, L0759: 4, L0779: 3, L0755: 3, H0222: 2, H0575: 2, H0705: 2, H0581: 2, L0803: 2, L0659: 2, L0790: 2, L0754: 2, L0749: 2, L0777: 2, H0556: 1, H0159: 1, T0049: 1, H0650: 1, S0045: 1, T0060: 1, H0046: 1, L0163: 1, S0051: 1, H0030: 1, H0553: 1, H0628: 1, H0038: 1, H0268: 1, H0059: 1, S0422: 1, H0529: 1, L0770: 1, L0667: 1, L0800: 1, L0641: 1, L0773: 1, L0662: 1, L0794: 1, L0766: 1, L0650: 1, L0375: 1, L0530: 1, L0791: 1, L0663: 1, S0216:				59-78

						1, S0380: 1, S0027: 1, L0748: 1, L0731: 1, L0757: 1, L0758: 1 and L0591: 1.						
1168	HE8MU78	890664	1178	126 - 1160	2583	Cys-21 to Asn-32, Leu-48 to Arg-53, Gln-154 to Leu-161, Pro-213 to Asp-220, Pro-257 to Glu-265, Lys-274 to Asn-281, Ala-326 to Pro-344.	AR096: 18, AR052: 15, AR089: 10, AR060: 9, AR053: 8, AR104: 5, AR033: 4, AR061: 4, AR055: 3, AR039: 2 T0006: 34, L0753: 8, H0013: 2, L0750: 2, T0082: 1, L0745: 1, L0779: 1 and L0759: 1.				281-316, 1-22	
1169	HTNBJ17	890703	1179	498 - 824	2584	Gln-8 to Ser-13, Arg-21 to Ser-27, Glu-37 to Lys-42.	AR055: 5, AR096: 4, AR052: 4, AR053: 3, AR060: 3, AR061: 3, AR089: 3, AR033: 3, AR104: 2, AR039: 0 L0748: 12, L0747: 11, S0358: 10, L0766: 8, L0794: 6, L0740: 6, L0779: 6, H0556: 5, L0803: 5, L0749: 5, H0266: 4, L0743: 4, L0744: 4, L0758: 4, H0624: 3, H0265: 3, L0776: 3, S0404: 3, S3014: 3, L0752: 3, L0731: 3, L0599: 3, H0661: 2, L0005: 2, S0360: 2, H0580: 2, S0046: 2, H0645: 2, H0013: 2,					85-109

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1170	HTTJZ84	890714	1180	1309 - 311	2585	Leu-2 to Asn-7, Glu-129 to Gly-137, Glu-279 to Lys-284, Pro-318 to Leu-333.	AR055: 4, AR033: 3, AR061: 3, AR096: 3, AR052: 2, AR060: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 0 S0474: 4, S0052: 4, H0265: 3, S0046: 3, S0344: 3, T0007: 2, S0132: 2, S0476: 2, H0253: 2, H0545: 2, H0551: 2, H0412: 2, L5623: 2, L0777: 2, L0757: 2, L0588: 2, S0446: 2, H0664: 1, H0489: 1, H0069: 1, H0635: 1, H0706: 1, H0618: 1, H0318: 1, H0581: 1, H0544: 1, H0023: 1, H0247: 1, H0271: 1, H0424: 1, H0628: 1, H0617: 1, H0634: 1, S0142: 1, S0210: 1, L0646: 1, L0773: 1, L0768: 1, L0804: 1, L0659: 1, L0666: 1, L0665: 1,			111-127, 205-221, 238-254

							S0428: 1, H0435: 1, S0330: 1, H0521: 1, H0576: 1, S0027: 1, L0731: 1 and H0667: 1.					
1171	HLYBD96	890826	1181	23 - 964	2586	Phe-30 to Cys-36.	AR055: 429, AR060: 304, AR033: 260, AR061: 208, AR089: 197, AR052: 148, AR104: 145, AR096: 138, AR053: 92, AR039: 64 L0794: 2, H0581: 1, H0179: 1, S0036: 1, L0789: 1, L0777: 1 and H0445: 1.					207-239, 39-61, 156-182, 119-138, 84-101, 256-273, 63-79
1172	HDPPJ68	891362	1182	259 - 1230	2587	Gly-34 to Leu-39, His-41 to Pro-49, Gly-62 to Arg-67, Thr-80 to Gln-88, Met-181 to Glu-191, Leu-197 to Arg-206.	AR033: 4, AR060: 4, AR104: 2, AR061: 2, AR052: 1, AR089: 1, AR096: 0, AR053: 0, AR055: 0 L0761: 5, L0800: 4, L0794: 3, L0766: 3, L0803: 3, L0483: 2, H0264: 2, L0773: 2, L0789: 2, H0521: 2, L0748: 2, L0779: 2, L0758: 2, H0556: 1, S0114: 1, S0116: 1, S0282: 1, S0476: 1, H0497: 1, S6028: 1, H0288: 1, L0520: 1, L0764: 1, L0560: 1, L0552: 1, L0774: 1, L0523: 1, S0126: 1, H0522: 1, L0777:					293-321, 88-109, 125-150, 12-33, 229-245, 269-285, 158-174

1173	HTTJT40	891742	1183	211 - 654	2588	Phe-61 to His-66.	1, L0759: 1, S0031: 1 and L0480: 1.		1-27, 97-118
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						L0762: 1, L0763: 1, L0772: 1, L0648: 1, L0363: 1, L0767: 1, L0768: 1, L0651: 1, L0776: 1, L0636: 1, L0809: 1, L0545: 1, L0647: 1, L0793: 1, L0664: 1, H0435: 1, H0648: 1, H0436: 1, S3014: 1, S0206: 1, L0742: 1, L0779: 1, L0752: 1, L0731: 1, S0260: 1, H0445: 1, S0434: 1, S0436: 1 and S0194: 1.			192340, 234200		43-74, 132-149, 24-41, 93-109
1174	HETDR50	891862	1184	650 - 120	2589	Ser-16 to Arg-23, Ser-152 to Asn-161, Thr-165 to Thr-170.	AR055: 9, AR033: 9, AR060: 9, AR052: 7, AR104: 6, AR053: 6, AR061: 6, AR089: 6, AR096: 5, AR039: 3 H0090: 3, H0013: 2, H0046: 2, H0624: 1, H0170: 1, L0459: 1, S0222: 1, H0427: 1, S0010: 1, H0251: 1, H0596: 1, H0050: 1, H0014: 1, S0214: 1, H0412: 1, L0439: 1, L0759: 1 and S0436: 1.	20p13			
1175	HSLFZ79	892016	1185	173 - 1513	2590	Arg-171 to Thr-176, Met-216 to Asn-221, Glu-229 to Lys-235, Arg-348 to Trp-353,	AR089: 7, AR096: 7, AR060: 5, AR033: 4, AR039: 4, AR055: 4, AR061: 4, AR053: 4,					1-26, 98-119, 54-75, 308-324, 145-

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1176	HDQGN46	892018	1186	265 - 1308	2591					

				Pro-205 to Asn-218, Gly-259 to Ala-264, Asn-290 to Ser-302, Glu-307 to Tyr-314, Tyr-317 to Lys-332.	AR061: 0, AR039: 0 H0521: 5, L0804: 2, H0634: 1, S0440: 1 and H0522: 1.				
1177	HDPRH64	892038	1187	820 - 155	2592	Trp-98 to Arg-105, Trp-156 to Cys-162, Glu-184 to Met-205, Gln-207 to Val-216.	AR096: 3, AR060: 2, AR089: 2, AR033: 1, AR052: 1, AR061: 1, AR104: 0 L0740: 15, L0758: 6, H0539: 5, H0521: 4, L0744: 4, L0754: 4, S0434: 4, L0803: 3, L0774: 3, L0666: 3, L0748: 3, L0439: 3, L0752: 3, S0002: 2, S0426: 2, L0651: 2, L0659: 2, H0170: 1, S0354: 1, S0358: 1, S0360: 1, T0008: 1, T0060: 1, H0575: 1, H0618: 1, H0309: 1, H0457: 1, S0250: 1, H0553: 1, H0100: 1, H0494: 1, S0142: 1, L0369: 1, L0638: 1, L0761: 1, L0645: 1, L0771: 1, L0363: 1, L0767: 1, L0768: 1, L0775: 1, L0806: 1, L0776: 1, L0809: 1, L0663: 1, L0438: 1, H0689: 1, H0670: 1, S0390: 1, L0745: 1, L0746: 1, L0749: 1,	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279	105-131, 48-70, 132-155, 165-181, 79-95, 1-17

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1178	HPIAN49	892164	1188	70 - 1296	2593	Ser-52 to Arg-57, Gln-94 to Ser-99, Pro-191 to Gly-196, Thr-399 to Leu-406.	AR061: 4, AR052: 3, AR089: 2, AR060: 2, AR055: 2, AR096: 2, AR033: 1, AR053: 1, AR039: 1, AR104: 1 S0028: 6, S0260: 4, S0282: 3, S0031: 3, L0005: 2, L0476: 2, S0278: 2, H0592: 2, H0318: 2, H0617: 2, S0144: 2, S0428: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0005: 1, H0331: 1, S0049: 1, S0050: 1, H0416: 1, S0036: 1, H0164: 1, H0056: 1, S0150: 1, S0216: 1, S0044: 1, S0146: 1 and S0194: 1.			284-312, 1-22, 373-398, 65-84, 316-332, 354-370, 26-42
1179	HDPVB49	892654	1189	353 - 1336	2594	Val-14 to Lys-20, Gly-24 to Gly-31, Ala-33 to Val-40, Glu-140 to Phe-156, Ala-171 to Gln-184, Glu-300 to Lys-305.	AR055: 1, AR061: 1, AR060: 1, AR104: 1, AR033: 1, AR089: 1, AR052: 0, AR096: 0, AR053: 0, AR039: 0 H0521: 16, L0748: 13, L0655: 4, H0522: 4, H0575: 3, L0775: 3, L0754: 3, S0010: 2, H0644: 2, L0776:	11q13		102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,	271-297, 114-138, 184-205, 224-244, 49-65, 88-104

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1180	HPJCP79	892826	1190	18 - 944	2595	Asp-25 to Gly-38, Leu-167 to Ser-172, Leu-277 to Ser-291.	AR052: 6, AR055: 5, AR060: 5, AR033: 4, AR053: 4, AR089: 4, AR096: 4, AR104: 3, AR061: 3, AR039: 2 L0752: 4, L0754: 2, L0755: 2, H0265: 1, H0556: 1, T0040: 1, H0052: 1, H0544: 1, T0023: 1, H0591: 1, S0038: 1, H0100: 1, L0662: 1, L0663: 1, S0126: 1, S0152: 1, H0521: 1,				183-199, 5-21, 129-145, 221-237

1181	HHEVK59	893348	1191	297 - 743	2596	Ser-76 to Thr-84, Ala-126 to Glu-132.	L0744: 1 and H0653: 1. AR039: 4, AR052: 4, AR053: 3, AR089: 3, AR033: 3, AR096: 3, AR055: 3, AR060: 3, AR061: 2, AR104: 2 L0439: 10, L0803: 7, L0777: 7, H0052: 6, L0766: 6, S0356: 4, L0794: 4, L0751: 4, L0747: 4, L0731: 4, H0013: 3, H0551: 3, L0770: 3, L0805: 3, L0776: 3, L0665: 3, L0744: 3, L0748: 3, L0740: 3, L0754: 3, L0759: 3, S0222: 2, H0586: 2, H0156: 2, H0599: 2, H0163: 2, H0616: 2, S0002: 2, H0529: 2, L0768: 2, L0789: 2, H0144: 2, L0438: 2, H0682: 2, H0672: 2, L0749: 2, L0750: 2, L0755: 2, S0436: 2, L0591: 2, L0599: 2, H0170: 1, H0171: 1, H0556: 1, H0685: 1, H0583: 1, H0657: 1, S0212: 1, S0408: 1, S0007: 1, L0717: 1, H0549: 1, H0370: 1, H0575: 1, S0010: 1, H0546: 1, H0545: 1, H0009: 1, H0050: 1, H0620:	5p15.1-p14	108962, 123000	82-110, 132-148, 12-28

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1182	HMKAK61	893374	1192	121 - 1197	2597	Gly-26 to Asp-32, Phe-53 to Leu-58, Asn-63 to Arg-86, Ser-91 to Gln-99, Gly-133 to Asn-139, Glu-144 to Arg-151, Asp-242 to His-250, Pro-319 to Asp-326, Asn-352 to Lys-358.	AR089: 36, AR039: 31, AR053: 25, AR033: 22, AR096: 20, AR052: 19, AR104: 17, AR060: 16, AR055: 14, AR061: 10 S0358: 11, S0406: 9, S0442: 6, S0440: 3, L0740: 3, S0408: 2, S0046: 2, H0421: 2, H0597: 2, S0210: 2, L0518: 2, S0374: 2, S0328: 2, S0027: 2, L0755: 2, H0445: 2, S0436: 2,			218-235

					L0596: 2, H0717: 1, H0716: 1, H0294: 1, S0114: 1, T0049: 1, H0341: 1, S0282: 1, H0484: 1, H0663: 1, S0420: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, H0392: 1, H0497: 1, T0039: 1, T0109: 1, H0427: 1, H0618: 1, S0010: 1, S0049: 1, H0052: 1, H0014: 1, H0266: 1, S0003: 1, T0023: 1, H0673: 1, H0494: 1, H0633: 1, S0144: 1, S0344: 1, S0422: 1, S0002: 1, L0764: 1, L0542: 1, L5623: 1, S0148: 1, H0520: 1, S0330: 1, H0696: 1, L0743: 1, L0744: 1, L0748: 1, L0750: 1, L0757: 1, L0608: 1, L0601: 1, H0667: 1, S0196: 1, H0542: 1 and H0543: 1.			
1183	HWADM6 5	893492	1193	145 - 738	2598		AR096: 5, AR053: 5, AR060: 4, AR052: 4, AR033: 3, AR055: 3, AR089: 2, AR061: 2, AR104: 2, AR039: 1 H0038: 2, S0114: 1, H0650: 1, H0341: 1, H0125: 1, H0581: 1, L0761: 1,			41-75

					L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0758: 1 and H0136: 1.				
1184	HLQFF81	893535	1194	168 - 530	2599	Gly-103 to Ser-114.	AR055: 10, AR052: 6, AR053: 6, AR060: 5, AR089: 5, AR033: 5, AR061: 4, AR096: 4, AR039: 4, AR104: 4 L0805: 6, L0766: 5, L0758: 5, L0803: 4, L0794: 3, L0439: 3, L0774: 2, L0776: 2, L0517: 2, L0748: 2, L0751: 2, L0777: 2, L0731: 2, L0608: 2, L0594: 2, H0170: 1, H0171: 1, H0657: 1, H0656: 1, S0442: 1, H0369: 1, H0261: 1, S0222: 1, H0574: 1, H0632: 1, T0040: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0046: 1, L0126: 1, S0051: 1, S6028: 1, L0142: 1, H0628: 1, H0090: 1, H0038: 1, H0269: 1, H0100: 1, S0438: 1, H0633: 1, L0369: 1, L0637: 1, L3905: 1, L0761: 1, L0768: 1, L0649: 1, L0804: 1, L0652: 1, L0653: 1, L0659: 1, L0809: 1, L0788: 1, L0789:			66-86, 21-37

					1, L0438: 1, H0547: 1, H0539: 1, S0152: 1, H0521: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1 and L0485: 1.				
1185	HDPIG80	893789	1195	207 - 791	2600	Pro-101 to Gly-109.	AR039: 12, AR104: 12, AR033: 10, AR089: 9, AR096: 8, AR055: 7, AR060: 7, AR052: 7, AR053: 7, AR061: 5 L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0028: 2, L0751: 2, L0749: 2, L0595: 2, T0002: 1, H0685: 1, H0295: 1, H0294: 1, S0001: 1, S0348: 1, S0360: 1, S0046: 1, S0132: 1, H0592: 1, H0587: 1, H0492: 1, L0622: 1, H0156: 1, H0575: 1, H0618: 1, H0581: 1, H0309: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, S0051: 1, H0594: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0628: 1, H0040: 1, H0268: 1, H0056: 1, H0561: 1, H0509:			146-169, 52-70, 171-187, 24-40, 114-130

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1186	HOELW53	893798	1196	1829 - 1284	2601	Trp-2 to Pro-20, Gln-160 to Asp-182.	AR053: 81, AR039: 79, AR052: 74, AR096: 62, AR033: 51, AR089: 50, AR055: 49, AR104: 49, AR060: 34, AR061: 24 L0794: 14, L0809: 9, L0731: 8, L0747: 7, L0759: 7, H0556: 6, L0769: 6, L0758: 5, H0547: 4, L0749: 4, L0755: 4, H0586: 3, S0002: 3, L0770: 3, L0804: 3, L0659: 3, H0521: 3, L0439: 3, L0750: 3, L0605: 3, H0265: 2, H0341: 2, S0418: 2, S0360: 2, H0637: 2, H0580: 2, S0046: 2,				101-122, 62-83, 132-150, 43-60, 23-39

							H0643: 2, H0618: 2, H0083: 2, H0561: 2, L0761: 2, L0767: 2, L0775: 2, H0144: 2, S0126: 2, L0740: 2, L0751: 2, L0757: 2, H0713: 1, H0656: 1, L0785: 1, S0001: 1, S0282: 1, H0661: 1, S0356: 1, S0376: 1, S0045: 1, H0619: 1, S0278: 1, S0222: 1, H0607: 1, H0253: 1, H0009: 1, H0050: 1, H0620: 1, H0071: 1, T0010: 1, H0099: 1, H0615: 1, H0428: 1, H0135: 1, H0090: 1, H0591: 1, H0551: 1, H0413: 1, H0056: 1, H0623: 1, L0564: 1, L0475: 1, H0509: 1, H0646: 1, S0344: 1, H0529: 1, L0369: 1, L0667: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0378: 1, L0805: 1, L0661: 1, L0657: 1, L0788: 1, L0663: 1, L0665: 1, S0374: 1, L0438: 1, H0682: 1, H0648: 1, S0380: 1, H0710: 1, H0478: 1, L0754: 1, L0599: 1, H0668: 1, S0026: 1, H0136: 1 and H0008: 1.			

1187	HUSID53	893863	1197	50 - 394	2602	Lys-9 to Arg-16, Gly-37 to Asn-45.	AR096: 3, AR052: 2, AR060: 2, AR104: 1, AR089: 1, AR033: 1, AR053: 1, AR061: 1, AR055: 1, AR039: 0 H0522: 2, H0052: 1, H0412: 1, L0794: 1, L0803: 1, H0651: 1, H0521: 1, L0748: 1, L0749: 1 and L0752: 1.			51-68
1188	HDPFZ30	894151	1198	110 - 880	2603		AR039: 7, AR033: 6, AR089: 5, AR053: 5, AR055: 4, AR096: 4, AR104: 4, AR052: 4, AR060: 3, AR061: 3 H0250: 5, H0580: 2, L0770: 2, L0438: 2, L0439: 2, L0754: 2, S0114: 1, H0459: 1, H0489: 1, S0278: 1, H0069: 1, H0318: 1, H0123: 1, L0471: 1, H0071: 1, H0328: 1, H0634: 1, T0067: 1, L0351: 1, H0560: 1, S0142: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L0761: 1, L0662: 1, L0363: 1, L0364: 1, L0794: 1, L0805: 1, L0789: 1, L0666: 1, L0664: 1, S0126: 1, H0658: 1, H0670: 1,			193-212, 23-43, 48-74, 83-101, 103-119, 164-180

						H0521: 1, H0522: 1, S0044: 1, H0555: 1, H0576: 1, L0748: 1 and L0755: 1.							
1189	HE8CW35	894153	1199	22 - 555	2604	Met-1 to Lys-19, Lys-29 to Gly-58, Ala-60 to Gly-88, Ala-90 to Asp-97.	AR033: 21, AR089: 6, AR060: 5, AR061: 2, AR104: 1, AR055: 1, AR096: 0, AR039: 0 H0013: 2, S0051: 2, H0333: 1, H0156: 1, S0049: 1, H0424: 1, L0455: 1, L0768: 1, L0517: 1, L0783: 1, L0809: 1 and L0666: 1.						144-166	
1190	HE9SE46	894178	1200	332 - 1066	2605	Ala-29 to Asp-35, Pro-81 to Cys-89, Leu-108 to Gly-119, Glu-125 to Ala-138, Ser-140 to Asn-146, Asp-163 to Glu-174, Ser-180 to Gly-187, Lys-224 to Arg-229, Ile-231 to Tyr-238.	AR033: 2, AR061: 1, AR055: 1, AR089: 1, AR052: 1, AR060: 1, AR053: 1, AR104: 0, AR096: 0, AR039: 0 L0776: 21, L0777: 14, L0439: 12, L0752: 9, L0438: 8, L0591: 7, L0805: 5, L0771: 4, L0803: 4, L0774: 4, S0360: 3, H0013: 3, L0731: 3, L0415: 2, H0052: 2, H0024: 2, S0386: 2, L0663: 2, L0745: 2, L0756: 2, L0596: 2, L0608: 2, S0212: 1, S0222: 1, H0586: 1, H0156: 1, H0596: 1, H0050: 1, S0050: 1,						192-221	

						H0373: 1, S0051: 1, S6028: 1, H0188: 1, S0003: 1, H0031: 1, S0448: 1, S0306: 1, S0440: 1, L0369: 1, L0763: 1, L0773: 1, L0381: 1, L0775: 1, L0659: 1, H0144: 1, T0068: 1, H0547: 1, H0660: 1, S0330: 1, S0406: 1, L0754: 1, L0746: 1, L0750: 1, L0779: 1, L0755: 1, S0260: 1 and H0665: 1.			
1191	HBHMH72	894186	1201	38 - 1711	2606	Ser-2 to Ala-10, Glu-12 to Leu-17, Gly-21 to Val-38.	AR096: 2, AR039: 1, AR033: 1, AR089: 0, AR061: 0, AR053: 0, AR104: 0, AR060: 0 L0749: 5, H0052: 3, H0688: 3, H0090: 3, L0744: 3, L0748: 3, L0439: 3, H0341: 2, L0005: 2, L0665: 2, H0593: 2, L0743: 2, L0751: 2, L0599: 2, T0002: 1, S6024: 1, H0722: 1, S0220: 1, T0040: 1, H0013: 1, H0318: 1, H0251: 1, T0110: 1, H0375: 1, H0266: 1, H0687: 1, L0142: 1, S0112: 1, S0144: 1, S0002: 1, H0529: 1, L0763: 1, L0772: 1, L0768: 1, L0766:			219-235, 513-529, 66-82, 190-206, 41-57

					1, L5564: 1, L0776: 1, S0310: 1, L0438: 1, S0152: 1, H0521: 1, H0187: 1, H0576: 1, S0027: 1, L0740: 1, L0750: 1, L0596: 1, L0591: 1 and L0592: 1.				
1192	HWAHA1 1	894203	1202	90 - 614	2607	AR061: 3, AR089: 3, AR096: 3, AR039: 2, AR060: 2, AR033: 1, AR104: 1, AR055: 1, AR052: 0, AR053: 0 L0751: 6, H0659: 4, H0657: 2, L0764: 2, L0655: 2, H0682: 2, H0521: 2, L0743: 2, L0749: 2, H0265: 1, T0049: 1, S0134: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, S0045: 1, H0549: 1, H0486: 1, T0060: 1, H0575: 1, H0581: 1, H0061: 1, H0266: 1, L0055: 1, H0068: 1, H0090: 1, H0551: 1, H0413: 1, S0142: 1, S0002: 1, L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0664: 1, H0658: 1, H0670: 1, H0648: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.				111-133, 43-63, 72-98, 137-160

1193	HLWAH05	894289	1203	652 - 1503	2608		AR061: 2, AR053: 2, AR096: 2, AR060: 1, AR089: 1, AR052: 1, AR033: 1, AR104: 1, AR039: 1, AR055: 0 H0586: 5, L0751: 2, H0170: 1, H0662: 1, H0638: 1, H0575: 1, H0271: 1, H0553: 1, H0477: 1, H0641: 1, S0002: 1, H0529: 1, L0641: 1, L0803: 1, L0793: 1, H0547: 1, H0689: 1 and H0543: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	148-164
1194	HUJCH47	894599	1204	687 - 1283	2609		AR052: 4, AR053: 3, AR033: 1, AR055: 1, AR060: 1, AR061: 0, AR096: 0, AR089: 0, AR039: 0, AR104: 0 H0650: 1, S0420: 1 and H0599: 1.			85-101
1195	HDPCI84	894601	1205	120 - 1091	2610	Leu-90 to Gln-96, Asp-109 to Thr-114, Ile-126 to Lys-133, Val-194 to Arg-207, Asp-219 to Asp-234, Glu-296 to Tyr-304.	AR053: 3, AR060: 3, AR089: 2, AR052: 2, AR039: 2, AR055: 2, AR096: 1, AR033: 1, AR104: 1, AR061: 1 H0521: 4, L0803: 3, S0358: 2, H0489: 2, H0046: 2, S0440: 2, L0794: 2, L0666: 2, H0144: 2, S0126:			138-154

						2, S0342: 1, H0663: 1, S0356: 1, S0408: 1, H0013: 1, L0021: 1, H0705: 1, H0150: 1, H0266: 1, H0039: 1, H0622: 1, H0038: 1, H0551: 1, S0422: 1, L0598: 1, L0646: 1, L0766: 1, L0653: 1, L0656: 1, L0789: 1, L0532: 1, L0663: 1, H0658: 1, L0748: 1, L0777: 1, L0759: 1, S0434: 1, L0596: 1 and H0506: 1.				
1196	HCRPU72	894605	1206	77 - 799	2611	Gly-25 to Thr-37, Asn-100 to Gly-107, Leu-147 to Asn-153, Ser-185 to Ser-192, Ser-207 to Lys-220.	AR039: 27, AR033: 16, AR053: 15, AR089: 14, AR052: 13, AR096: 12, AR055: 10, AR104: 9, AR060: 8, AR061: 7 H0144: 6, H0013: 2 and S0356: 1.				154-170
1197	HFTCG52	894736	1207	403 - 723	2612	Trp-4 to Asn-18, Pro-32 to Leu-39.	AR061: 28, AR033: 25, AR104: 22, AR055: 22, AR060: 19, AR089: 19, AR052: 12, AR039: 11, AR096: 10, AR053: 8 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2,				48-65, 81-97

			H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1,		

						L0757: 1, S0436: 1 and S0194: 1.			55-73, 6-22, 82-98, 24-40
1198	HBINP48	894737	1208	252 - 644	2613	AR033: 11, AR061: 11, AR089: 8, AR060: 6, AR104: 5, AR055: 4, AR096: 3, AR052: 3, AR053: 2, AR039: 1 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1,			

						H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0559: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0520: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.			
1199	HCQDE22	894831	1209	326 - 841	2614	Ile-128 to Gly-134, Phe-145 to Thr-150.	AR055: 10, AR060: 6, AR052: 6, AR033: 5, AR061: 4, AR053: 4, AR096: 3, AR089: 3, AR104: 2, AR039: 1 H0596: 1 and L0749: 1.				25-53, 88-104, 8-24, 52-68
1200	HKGCH22	894999	1210	65 - 502	2615	Met-1 to Arg-8, Arg-57 to Arg-65, Pro-139 to Thr-146.	AR039: 37, AR052: 24, AR053: 19, AR033: 18, AR096: 16, AR104: 16, AR089: 15, AR055: 11, AR060: 10, AR061: 9 L0794: 2, L0663: 2, L0665: 2, S0360: 1, H0042: 1, H0253: 1, H0150: 1, H0038: 1, H0633: 1, S0142:				9-27, 106-123, 79-95, 29-45

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1201	HTPGG10	895024	1211	111 - 530	2616	Ser-29 to Ser-34.	AR055: 8, AR060: 7, AR061: 4, AR053: 4, AR089: 3, AR052: 3, AR033: 3, AR039: 3, AR104: 2, AR096: 1 H0622: 7, S0360: 3, L0809: 3, L0804: 2, L0774: 2, L0775: 2, L0748: 2, H0484: 1, H0014: 1, S0440: 1, L0646: 1, L0643: 1, L0374: 1, L0764: 1, L0771: 1, L0773: 1, L0662: 1, L0803: 1 and L0788: 1.			1-29, 114-137, 81-101, 35-51
1202	HFPHB92	895129	1212	276 - 620	2617	Lys-108 to Ser-113.	AR033: 8, AR055: 7, AR104: 5, AR039: 5, AR060: 5, AR053: 4, AR052: 4, AR089: 4, AR061: 3, AR096: 1 L0745: 12, L0803: 5, L0746: 4, L0749: 4, H0052: 3, L0776: 2, H0547: 2, L0756: 2, S0222: 1, H0431:			1-20, 24-47, 72-99

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1203	HLWBY26	895166	1213	61 - 1158	2618	Pro-21 to Pro-39.	AR039: 42, AR053: 26, AR033: 20, AR052: 19, AR096: 19, AR055: 18, AR104: 17, AR089: 17, AR060: 12, AR061: 9 H0545: 11, H0716: 4, H0333: 4, L0794: 4, L0754: 4, H0544: 3, H0546: 3, L0743: 3, L0744: 3, L0757: 3, H0713: 2, S0212: 2, S0360: 2, H0619: 2, H0124: 2, L0771: 2, L0521: 2, S0027: 2, L0751: 2, L0777: 2, L0605: 2, H0550: 1, L0623: 1, H0013: 1, H0150: 1, H0086: 1, H0123: 1, H0288: 1, H0553: 1, H0644: 1, H0628: 1, H0181: 1, H0163: 1, H0087: 1, H0551: 1, H0100: 1, L3904: 1, L0803: 1, L0655: 1, L0656: 1, L0659: 1, L0384: 1, L0809: 1, L0565: 1, H0547: 1, H0658: 1, S0037: 1, S0028: 1, S0206: 1, L0603:			292-323

							1 and H0665: 1.			
1204	HKAHR43	895539	1214	105 - 2606	2619	Cys-132 to Gly-138, Asn-176 to Met-183, Leu-217 to Val-222, Gln-349 to Thr-354, Glu-406 to Tyr-414, Gln-416 to Tyr-424, Arg-457 to Lys-466, Gln-545 to Glu-552, Gln-576 to Gln-586, His-669 to Val-674, Lys-801 to Thr-821.	AR096: 9, AR061: 7, AR052: 6, AR053: 5, AR089: 5, AR039: 4, AR033: 3, AR104: 3, AR060: 3, AR055: 3 L0771: 6, H0494: 4, S0358: 3, L0803: 3, L0518: 2, L0666: 2, S0354: 1, H0239: 1, H0553: 1, H0181: 1, H0617: 1, H0488: 1, L0648: 1, L0662: 1, L0774: 1, L0659: 1, L0665: 1, H0658: 1, H0648: 1, S0152: 1, S0404: 1 and S0434: 1.			145-176, 422-454, 471-506, 101-131, 779-801, 2-23, 246-262
1205	HLDCE43	895550	1215	145 - 627	2620		AR033: 28, AR053: 27, AR089: 23, AR052: 20, AR039: 20, AR055: 14, AR060: 13, AR061: 12, AR096: 10, AR104: 8 L0751: 7, L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0545: 2, H0594: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0380: 2, S0028: 2, L0754: 2, L0749: 2, L0777: 2, L0595: 2, H0556: 1,			98-115, 132-149, 18-34

			T0002: 1, H0685: 1, H0295: 1, H0294: 1, S0001: 1, H0484: 1, S0348: 1, S0360: 1, S0046: 1, S0132: 1, H0550: 1, H0592: 1, H0587: 1, H0333: 1, H0492: 1, L0622: 1, H0156: 1, H0575: 1, H0618: 1, H0581: 1, H0309: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, H0051: 1, S0051: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0628: 1, H0040: 1, H0268: 1, H0056: 1, T0042: 1, H0561: 1, H0509: 1, H0647: 1, S0344: 1, S0210: 1, H0529: 1, L0763: 1, L0770: 1, L0639: 1, L3904: 1, L0646: 1, L0643: 1, L0771: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0378: 1, L0805: 1, L0527: 1, L0382: 1, L0809: 1, L0530: 1, L0666: 1, H0547: 1, H0711: 1, H0682: 1, H0670: 1, H0521: 1, H0696: 1, S0406: 1, L0755: 1, L0605: 1, H0667: 1, S0192: 1 and S0242: 1.		

1206	HFXKW18	895626	1216	528 - 2336	2621	Ala-39 to Arg-46, Lys-76 to Ile-81, Asn-143 to Trp-149, Asp-154 to Lys-173.	AR061: 3, AR096: 2, AR052: 1, AR089: 1, AR053: 1, AR060: 1, AR039: 1, AR055: 1, AR104: 0, AR033: 0 H0250: 3, S0031: 3, H0271: 2, S0260: 2, S0001: 1, S0282: 1, H0617: 1, L0367: 1, S0053: 1, S0390: 1, L0698: 1 and H0352: 1.			6-35, 281-309, 393-410, 573-589, 84-100, 432-448, 542-558
1207	HSKCP67	895644	1217	299 - 814	2622	Pro-4 to Gln-10, Pro-22 to Arg-28, Glu-63 to Arg-86.	AR055: 8, AR052: 6, AR060: 5, AR033: 4, AR061: 4, AR089: 3, AR096: 3, AR053: 3, AR039: 2, AR104: 2 H0333: 2, L0758: 2, H0619: 1, H0618: 1, H0505: 1, S0051: 1, H0271: 1, S0142: 1, S0027: 1 and L0742: 1.			138-163, 95-118
1208	HBGOJ26	895700	1218	652 - 332	2623	Met-1 to Arg-6.	AR055: 11, AR033: 7, AR060: 6, AR052: 6, AR089: 6, AR061: 5, AR096: 4, AR053: 4, AR104: 2, AR039: 2 H0618: 11, L0743: 8, L0748: 6, L0754: 6, L0731: 6, H0545: 5, H0052: 4, H0546: 4, L0648: 4, L0662:			83-107, 53-69

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1209	HWHGQ4 6	895880	1219	514-1251	2624	Thr-60 to Ala-65, Leu-94 to Glu-99, Cys-182 to Trp-188.	AR053: 3, AR052: 3, AR061: 2, AR089: 2, AR055: 2, AR033: 2, AR096: 1, AR060: 1, AR104: 1 L0748: 14, L0740: 9, L0755: 9, L0771: 7, L0779: 6, L0662: 5, H0586: 4, L0666: 4, L0439: 4, S0436: 4, H0624: 3, H0615: 3, L0770: 3, L0659: 3, L0809: 3, H0547: 3, S0152: 3, H0521: 3, L0747: 3, H0171: 2, S0045: 2, H0635: 2, H0575: 2, H0546: 2, H0169: 2, H0494: 2, L0763: 2, L0769: 2, L0650: 2, L0653: 2, L0517: 2, H0520: 2, H0593: 2, H0435: 2, L0749:				27-61, 1-27, 159-181, 117-142, 68-87, 189-205

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1210	HNTOA59	895940	1220	289 - 1455	2625	Ser-55 to Gln-67, Ser-95 to Arg-100,	AR033: 3, AR096: 2, AR052: 2, AR089: 2,				

				Glu-142 to Ser-147, Pro-189 to Lys-200, Lys-235 to Lys-240, Glu-281 to Thr-294, Ile-299 to Ser-306, Ser-309 to Asn-317, Pro-324 to Phe-338, Ser-340 to Gly-352, Cys-355 to Leu-360, Val-374 to Ala-381.	AR053: 1, AR104: 1, AR055: 1, AR061: 1, AR060: 1, AR039: 0 L0439: 19, L0747: 6, L0804: 4, L0438: 4, L0766: 3, H0521: 3, S0212: 2, L0794: 2, L0793: 2, H0144: 2, L0752: 2, L0594: 2, H0265: 1, H0662: 1, S0354: 1, S0360: 1, H0441: 1, H0438: 1, T0039: 1, H0013: 1, H0156: 1, S0010: 1, L0471: 1, H0083: 1, H0266: 1, H0032: 1, H0038: 1, L0351: 1, H0494: 1, H0646: 1, L0598: 1, H0529: 1, L0763: 1, L0769: 1, L0803: 1, L0775: 1, S0374: 1, L0352: 1, H0520: 1, H0519: 1, S0350: 1, L0756: 1, L0779: 1, L0592: 1, H0665: 1 and S0424: 1.				
1211	HVVAL93	895960	1221	662 - 1435	2626	AR055: 43, AR089: 17, AR033: 17, AR060: 16, AR052: 14, AR053: 12, AR039: 11, AR096: 10, AR061: 8, AR104: 7 L0754: 2, S0040: 1 and H0672: 1.			108-138

1212	HAMGN09	895968	1222	226 - 1077	2627	Phe-84 to Trp-90, Lys-182 to Ile-187, Ser-202 to Leu-214, Pro-232 to Ser-240, Phe-260 to Met-273.	AR052: 9, AR053: 8, AR096: 7, AR089: 5, AR104: 4, AR033: 4, AR060: 4, AR039: 4, AR055: 2, AR061: 2 H0032: 7, L0749: 6, L0755: 5, L0804: 4, L0775: 4, L0748: 4, L0803: 3, L0731: 3, S0408: 2, S0222: 2, H0266: 2, L0805: 2, S0152: 2, S3014: 2, L0747: 2, H0556: 1, H0657: 1, H0341: 1, H0638: 1, H0125: 1, S0418: 1, H0722: 1, H0728: 1, H0574: 1, H0486: 1, H0318: 1, H0421: 1, H0530: 1, H0083: 1, H0375: 1, S6028: 1, H0267: 1, H0615: 1, H0165: 1, H0598: 1, H0591: 1, H0038: 1, H0634: 1, H0413: 1, H0560: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L0773: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0809: 1, L5623: 1, L0664: 1, H0144: 1, H0518: 1, H0522: 1, L0756: 1, L0758: 1, L0759: 1, L0588: 1, H0667: 1 and H0543: 1.			150-167

1213	HHEDS40	896083	1223	161 - 1567	2628	Glu-19 to Lys-30, Ser-130 to Lys-136, Asp-156 to Cys-164, Asn-166 to Lys-172, Glu-233 to Ser-243, Leu-311 to Glu-322, Asp-331 to Thr-352, Thr-363 to Ala-376, Pro-385 to Pro-390.	AR096: 3, AR089: 3, AR053: 3, AR060: 2, AR033: 2, AR039: 1, AR104: 1, AR055: 1, AR061: 1, AR052: 1 L0766: 8, L0769: 4, L0794: 4, L0803: 4, L0748: 3, L0749: 3, H0266: 2, L0764: 2, H0144: 2, L0777: 2, L0731: 2, H0445: 2, L0596: 2, H0543: 2, H0556: 1, S0116: 1, H0638: 1, H0580: 1, S0045: 1, T0039: 1, S6028: 1, H0267: 1, H0622: 1, L0483: 1, S0036: 1, H0135: 1, H0561: 1, L0761: 1, L0806: 1, L0805: 1, L0657: 1, L0666: 1, S0053: 1, S0330: 1, H0539: 1, S3014: 1, L0779: 1, L0757: 1, L0593: 1, H0542: 1 and S0424: 1.			431-449, 94-110
1214	HBMBF28	896325	1224	185 - 1021	2629	Leu-6 to Glu-11, Thr-13 to Pro-20, Glu-86 to Ala-92, Gln-95 to Leu-104, Glu-110 to Lys-116, Gln-173 to Phe-178, Gln-242 to Glu-261, Arg-267 to Tyr-279.	AR055: 406, AR060: 202, AR033: 149, AR039: 134, AR089: 128, AR061: 101, AR096: 99, AR104: 79, AR053: 73, AR052: 0 H0521: 9, L0508: 4, S0410: 3, S0474: 3, H0413: 3, L0766: 3, L0608: 3,			66-85, 26-42, 212-228

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						AR052: 21, AR089: 21, AR033: 18, AR096: 18, AR060: 17, AR055: 16, AR053: 16, AR104: 14, AR061: 14, AR039: 5 L0803: 25, H0046: 8, L0747: 7, L0438: 6, S0212: 5, L0764: 5, L0766: 5, L0439: 5, L0750: 5, L0755:					
1215	HJPAZ12	896370	1225	242 - 1048	2630	Leu-35 to Arg-41, Pro-46 to Leu-58, Phe-62 to Asp-73, Lys-101 to Phe-117, Tyr-134 to Trp-140.					

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1216	HISCV39	896442	1226	2720 - 723	2631	AR096: 5, AR089: 3, AR033: 3, AR053: 2, AR060: 2, AR039: 2, AR104: 2, AR055: 2, AR052: 2, AR061: 1 L0748: 8, H0556: 6, L0439: 6, L0766: 5, L0438: 5, L0759: 5, L0662: 4, S0046: 3, S0010: 3, H0024: 3, H0135: 3, L0663: 3, H0547: 3, S0126: 3, H0651: 3, L0751: 3, L0731: 3, S0011: 3, H0543: 3, H0650: 2, S0418: 2, S0442: 2, S0358: 2, H0261: 2, H0549: 2, H0586: 2, H0642: 2, H0052: 2, H0327: 2, H0620: 2, T0010: 2, H0687: 2, H0644: 2, L0456: 2, H0063: 2, L0598: 2, L0772: 2, L0657: 2, L0809: 2, S0052: 2, H0660: 2, H0539: 2, H0436: 2, L0754: 2, L0746: 2, L0777: 2, L0752: 2, L0753: 2, L0603: 2, H0624:	I6	611-637, 25-44, 126-142			

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1217	HPTVU91	896517	1227	864-145	2632	Asp-144 to Asp-151, Pro-153 to Arg-158, Pro-196 to Gly-201, Pro-215 to Trp-239.	AR055: 11, AR060: 6, AR061: 6, AR089: 6, AR033: 5, AR053: 4, AR039: 4, AR052: 4, AR104: 3, AR096: 3 S0442: 3, S0360: 2, H0424: 2, H0661: 1, S0376: 1, S0444: 1, H0489: 1, L0021: 1, H0039: 1, H0617: 1, S0440: 1, S0150: 1, H0647: 1, H0652: 1, L0772: 1, L0374: 1, L0662: 1, L0388: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, L0665: 1, H0658: 1, H0648:			

1218	HSLJD02	896743	1228	850 - 53	2633	Leu-32 to Gln-37, Phe-141 to Gly-146, Gln-261 to Ala-266.	AR039: 1, AR089: 1, AR096: 1, AR055: 1, AR033: 1, AR061: 1, AR060: 0, AR053: 0, AR052: 0, AR104: 0 S0390: 1			235-260, 9-32, 146-168, 77-96, 175-193, 116-133, 206-222	
1219	HNHOF94	896802	1229	769 - 284	2634	Pro-87 to Ser-95.	AR096: 16, AR052: 15, AR089: 13, AR033: 8, AR060: 8, AR053: 8, AR104: 8, AR055: 5, AR061: 5, AR039: 5 S0216: 1			110-126, 50-66	
1220	H2CBM85	896826	1230	393 - 860	2635	Ala-85 to Val-92.	AR052: 64, AR096: 42, AR053: 40, AR089: 29, AR060: 23, AR039: 23, AR033: 17, AR104: 13, AR055: 12, AR061: 11 S0028: 19, S0031: 9, S0052: 8, S0050: 7, L0105: 5, S0282: 4, H0381: 3, S0045: 3, S0278: 3, H0271: 3, H0617: 3, S0428: 3, S0001: 2, S0049: 2, H0196: 2, H0179: 2, S0038: 2, S0144: 2, S0044: 2, S0390: 2, S0206: 2, S0260: 2, L0591: 2, L0362: 2, L0361:			64-81	

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1221	HSLJC45	896843	1231	158 - 760	2636	Thr-3 to Gly-43, Thr-55 to Gln-61, Pro-71 to Ala-77, Pro-112 to Val-121, Thr-183 to His-188, Trp-195 to Thr-201.	AR096: 37, AR060: 15, AR055: 12, AR089: 11, AR039: 11, AR033: 9, AR052: 6, AR061: 5, AR053: 5, AR104: 5 L0438: 3, H0018: 1, H0522: 1, S0390: 1 and L0439: 1.	3p24.2	154705, 227646, 601154		147-164
1222	HETJW92	896874	1232	109 - 432	2637		AR055: 15, AR060: 13, AR089: 11, AR061: 9, AR033: 8, AR096: 7, AR052: 6, AR053: 5, AR104: 4, AR039: 3 H0046: 9, S0152: 3, L0439: 3, L0751: 3, H0052: 2, H0646: 2, L0438: 2, L0608: 2, S0376: 1, S0360: 1, H0393: 1, H0575: 1,					1-25, 38-57, 85-101

						S0346: 1, T0006: 1, H0598: 1, H0040: 1, L0800: 1, L0382: 1, L0788: 1, S0374: 1, H0689: 1, H0690: 1, H0539: 1, S0037: 1 and L0759: 1.					
1223	HTEME02	896919	1233	97 - 828	2638	Arg-33 to Gly-39, Arg-76 to Gly-99, Lys-112 to Val-118, Tyr-135 to Lys-148, Arg-152 to Arg-157.	AR060: 353, AR104: 303, AR055: 289, AR039: 258, AR033: 219, AR061: 208, AR089: 160, AR052: 140, AR053: 111, AR096: 75 L0748: 13, H0052: 7, S0222: 6, H0616: 6, H0013: 5, H0144: 5, L0005: 4, S0010: 4, H0421: 4, H0090: 4, H0038: 4, H0040: 4, L0758: 4, H0486: 3, H0622: 3, L0747: 3, S0040: 2, H0662: 2, H0619: 2, H0156: 2, H0318: 2, H0328: 2, H0031: 2, H0163: 2, L0648: 2, L0649: 2, L0805: 2, L0666: 2, L0665: 2, H0690: 2, S0406: 2, L0777: 2, S0260: 2, S6024: 1, S0114: 1, S0212: 1, S0110: 1, S0001: 1, S0282: 1, S0442: 1, S0376: 1, S0360: 1, S0300: 1, H0549: 1, H0431: 1, H0438: 1, H0331: 1,				40-61, 2-18	

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1224	HCYAC03	896987	1234	1604 - 1005	2639	Cys-15 to Gly-36, Tyr-55 to Ser-66, Pro-74 to Ala-84, Gly-100 to Asp-108, Leu-177 to His-198.	AR033: 50, AR104: 31, AR089: 27, AR060: 21, AR096: 19, AR055: 18, AR053: 13, AR052: 13, AR061: 12, AR039: 9			

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1225	HTTBH18	897055	1235	981 - 1325	2640	Thr-3 to Phe-14.	AR033: 23, AR104: 15, AR055: 7, AR061: 5, AR060: 5, AR089: 4, AR053: 3, AR052: 3, AR096: 3, AR039: 3				43-59, 18-34
							H0457: 3 and H0040: 1.				
1226	HOGBM94	897226	1236	1660 - 296	2641	Gly-46 to Lys-52, Asp-242 to Ser-247, Arg-272 to Ala-281, Arg-371 to Pro-377, Ala-430 to Asp-435, Gln-441 to Thr-446.	AR055: 5, AR039: 5, AR096: 4, AR033: 4, AR104: 4, AR052: 4, AR060: 4, AR053: 4, AR089: 4, AR061: 3 L0748: 8, L0439: 5, S0278: 4, L0770: 3, L0803: 3, L0665: 3, L0731: 3, S0040: 2, S0418: 2, H0250: 2, H0581: 2, H0622: 2, H0264: 2, H0056: 2, S0426:				144-168, 247-270, 385-412, 319-339, 208-225, 300-317, 282-299, 25-41, 114-130, 55-71, 91-107

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1227	HSLAS08	897262	1237	91 - 975	2642	Leu-79 to Thr-89, Pro-92 to Leu-99,	AR089: 5, AR039: 3, AR096: 3, AR060: 3,	19p13.2	108725, 120700,	1-22, 261-285	

	Val-124 to Asp-138, Lys-145 to Thr-153, Gln-159 to Leu-164, Pro-184 to Thr-194, Asn-223 to Asn-230, Arg-258 to Lys-264, Arg-290 to Lys-295.	AR053: 2, AR104: 2, AR033: 1, AR055: 1, AR061: 1, AR052: 0 L0439: 13, S0028: 6, H0575: 5, H0050: 5, S0027: 5, H0266: 4, L0794: 4, L0659: 4, H0124: 3, S3014: 3, L0779: 3, L0777: 3, L0731: 3, S0222: 2, L0564: 2, L0662: 2, L0789: 2, S0126: 2, L0602: 2, L0740: 2, L0754: 2, L0747: 2, L0758: 2, L0605: 2, L0599: 2, S0192: 2, S0212: 1, S0282: 1, S0420: 1, S0360: 1, H0208: 1, H0486: 1, T0040: 1, T0060: 1, H0599: 1, S6028: 1, H0288: 1, H0286: 1, S0250: 1, H0622: 1, L0455: 1, H0634: 1, H0412: 1, H0623: 1, S0038: 1, L0645: 1, L0363: 1, L0766: 1, L0635: 1, L0790: 1, L0663: 1, L0664: 1, S0053: 1, H0144: 1, L0565: 1, H0682: 1, H0660: 1, H0539: 1, H0521: 1, H0555: 1, S0390: 1, L0757: 1, S0031: 1, H0445: 1, L0591: 1, S0276: 1 and H0542: 1.		133171, 143890, 147670, 147670, 147670, 151440, 164953, 231670, 600276, 600957, 601843	

1228	HTLJA52	897328	1238	4 - 585	2643					43-59, 141-157
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1229	HISCG60	897517	1239	1683 - 1102	2644	AR039: 28, AR089: 20, AR096: 17, AR104: 14, AR053: 12, AR033: 12, AR060: 11, AR052: 11, AR055: 6, AR061: 4 H0519: 9, H0547: 8, H0521: 7, S0126: 6, H0619: 5, H0457: 5, H0264: 5, H0529: 5, L0794: 5, H0520: 5, H0539: 5, H0543: 5, H0677: 5, S0007: 4, L0471: 4, H0083: 4, H0266: 4, L0455: 4, H0135: 4, H0090: 4, T0041: 4, T0042: 4, L0718: 4, H0341: 3, S0420: 3, S0046: 3, H0052: 3, H0050: 3, H0494: 3, H0561: 3, S0150: 3, H0641: 3, H0660: 3, S0027: 3, L0779: 3, H0624: 2, H0556: 2, S0040: 2, T0049: 2, S0134:				154-179, 122-147, 38-60, 79-99, 11-27, 102-118

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1230	HEBFI34	897852	1240	1140 - 424	2645	Gly-88 to Arg-93, Ser-133 to Tyr-138, Phe-189 to Gly-195, Thr-211 to Gly-227.	AR089: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 2, AR055: 1, AR096: 1, AR052: 0, AR039: 0 L0748: 10, L0759: 6, S0436: 4, S0007: 3, S0126: 3, H0659: 3, S0028: 3, L0439: 3, L0740: 3, L0749: 3, L0777: 3, L0755: 3, S0376: 2, H0250: 2, H0046: 2, H0673: 2, H0038: 2, H0412: 2, H0494: 2, H0529: 2, L0770: 2, L0768: 2, L0766: 2, L0805: 2, S0152: 2, L0745: 2, L0750: 2, L0779: 2, L0757: 2, T0002: 1, H0583: 1, S0116: 1, H0341: 1, S0358: 1, S0444: 1, S0360: 1, H0580: 1,				93-132, 167-185, 93-112, 60-77, 148-164, 22-38

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1231	HKAEK20	897885	1241	958 - 353	2646	Pro-4 to Pro-9, Val-81 to Phe-87.	AR089: 6, AR055: 6, AR033: 5, AR053: 4, AR052: 4, AR096: 3, AR061: 3, AR039: 1, AR060: 1, AR104: 0 S0422: 19, S0126: 11, L0769: 10, L0750: 10, H0046: 9, H0124: 9, S0206:			

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1232	HDPVZ07	897891	1242	1207 - 287	2647	Ser-14 to Lys-21, Tyr-31 to Ser-39, Arg-121 to Gly-129, His-142 to Pro-153, Glu-155 to Ala-160, Arg-165 to Ala-170, Met-173 to Cys-180, Gln-187 to Ile-196, Ser-254 to Glu-264, Val-297 to Gly-302.	AR039: 8, AR033: 6, AR053: 5, AR089: 4, AR096: 4, AR104: 4, AR055: 4, AR060: 4, AR052: 3, AR061: 3 H0052: 3, H0521: 3, S0360: 1, H0619: 1, S0280: 1, H0046: 1, S0362: 1, H0119: 1, S0053: 1, H0478: 1 and S0011: 1.	5q23-q31	121050, 126150, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692,	98-114

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1233	HE8PB56	897898	1243	1893 - 1315	2648	Gln-37 to Gln-43, Cys-51 to Cys-65.	AR096: 3, AR061: 2, AR053: 1, AR089: 1, AR055: 1, AR033: 1, AR060: 1, AR052: 0, AR039: 0, AR104: 0 S0440: 28, S0476: 19, H0494: 19, S0372: 16, L0754: 16, S0132: 12, H0046: 12, L0666: 12, H0586: 11, S0330: 11, S0328: 10, S0360: 9, H0587: 9, L0747: 9, H0622: 8, S0436: 8, H0648: 7, S0356: 6, S0003: 6, H0674: 6, L0806: 5, L0362: 5, L0601: 5, S0358: 4, S0214: 4, H0039: 4, H0031: 4, H0264: 4, L0763: 4, L0662: 4, L0776: 4, L0777: 4, L0752: 4, S0430: 3, S0376: 3, H0370: 3, H0600: 3, H0592: 3, H0644: 3, H0551: 3, H0560: 3, L0637: 3, L0646: 3, L0649: 3, L0653:			71-111, 10-33, 100-132, 151-176	

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					Thr-12 to Gly-21.				
1234	HCFBF02	897932	1244	2128 - 2463	2649	AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR061: 0, AR053: 0, AR052: 0, AR055: 0 L0752: 10, L0471: 9, L0731: 9, H0422: 9, H0556: 6, L0748: 6, H0040: 5, L0641: 5, L0766: 5, L0439: 5, L0749: 5, H0543: 5,			94-111, 23-39

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1235	HE8TB14	897937	1245	2032 - 1475	2650	Lys-54 to Arg-61, Pro-108 to Ala-119, Ser-136 to Glu-156, Gly-166 to Ser-172.	AR055: 9, AR052: 6, AR061: 6, AR060: 5, AR096: 5, AR053: 4, AR033: 4, AR104: 4, AR089: 3, AR039: 1 H0013: 8, L0805: 5, H0716: 4, S0010: 4, H0052: 4, H0144: 4, H0615: 3, H0547: 3, L0747: 3, H0645: 2, S0049: 2, H0009: 2, L0769: 2, L0776: 2, L0665: 2, H0519: 2, H0658: 2, H0660: 2, L0602: 2, H0555: 2, L0439: 2, L0750: 2, L0597: 2, H0136: 2, H0423: 2, H0624: 1, H0171: 1,				

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1236	HHEFI15	897968	1246	141 - 1040	2651	Pro-19 to Gly-27, Cys-52 to Gly-64, Lys-77 to Lys-85, Pro-104 to Leu-117, Glu-119 to Tyr-127, Glu-153 to Gly-162,	AR039: 5, AR053: 5, AR052: 5, AR033: 5, AR089: 4, AR055: 4, AR096: 3, AR060: 3, AR104: 2, AR061: 2 L0438: 9, L0439: 8,			

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1237	HHEQF50	897970	1247	533 - 66	2652	Leu-52 to Ser-57, His-70 to Lys-77, Pro-100 to Lys-106, Lys-143 to Ala-148.	AR052: 2, AR053: 1, AR096: 1, AR055: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 0, AR033: 0 H0542: 39, H0592: 8, H0543: 8, H0545: 7, S0422:				125-141, 22-38

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1238	HOSAY56	897979	1248	1058 - 348	2653	Lys-13 to Ser-18, Ala-28 to Pro-35.	AR096: 5, AR052: 5, AR061: 4, AR089: 4, AR055: 3, AR060: 3, AR053: 3, AR033: 3, AR104: 3, AR039: 3 H0521: 9, H0522: 4, H0580: 2, S0214: 2, L0750: 2, H0486: 1, L0021: 1, H0251: 1, H0309: 1, H0263: 1, H0271: 1, S0003: 1, H0068: 1, H0090: 1, S0144: 1, L0803: 1, L0804: 1, L0749: 1, L0777: 1 and L0759: 1.			39-72
1239	HOGEA82	898097	1249	1428 - 340	2654		AR039: 8, AR033: 8, AR089: 6, AR053: 6, AR055: 6, AR060: 5, AR052: 5, AR096: 4, AR061: 3, AR104: 2 T0008: 1, H0052: 1, H0435: 1, H0672: 1 and H0696: 1.			59-75, 163-179
1240	HHFJV91	898152	1250	1250 -	2655	Val-6 to Phe-30,	AR089: 11, AR096: 8,			120-142

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1241	HMACM2 9	898193	1251	981 - 292	2656	Pro-37 to Cys-51, Gln-53 to Cys-60, Asn-99 to Gly-106, Gly-145 to Glu-151, Gly-200 to Tyr-219.	AR033: 216, AR061: 216, AR104: 181, AR060: 158, AR096: 139, AR055: 122, AR089: 122, AR039: 78, AR052: 57, AR053: 50 S0278: 12, S0144: 12, S0142: 9, H0521: 8, H0638: 5, S0344: 5, L0731: 5, L0755: 3, L0756: 2, H0575: 1, H0009: 1, H0375: 1, H0606: 1, S0438: 1, S0440: 1, S0002: 1, L0763: 1, L0769: 1, L0637: 1, L0806: 1, L0658: 1, L0666: 1, L0355: 1, S0332: 1, H0522: 1, S0028: 1, S0031: 1, S0436: 1 and L0599: 1.				166-197, 2-18
1242	HDPLG70	898235	1252	918 - 199	2657	Pro-51 to Asp-56, Gly-95 to Thr-105, Val-132 to Ala-138,	AR039: 106, AR053: 103, AR096: 100, AR052: 69, AR055: 34, AR089: 22,				196-228, 11-42

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1243	HABAD39	898401	1253	36 - 848	2658	AR033: 5, AR053: 4, AR089: 4, AR052: 4, AR060: 3, AR039: 3, AR061: 3, AR055: 3, AR096: 2, AR104: 2 L0731: 12, L0748: 8, L0751: 6, L0769: 4, L0438:			31-58, 65-81	

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1244	HKAKC86	898524	1254	211 - 798	2659	Pro-11 to Leu-36.				AR039: 7, AR052: 5, AR033: 4, AR089: 4, AR096: 4, AR053: 3, AR104: 3, AR060: 3, AR061: 2, AR055: 2 H0494: 4, H0486: 3, L0809: 2, L0747: 2, H0264: 1, L0550: 1 and L0758: 1.			37-69, 82-98, 156-173, 118-134
1245	HUKEP18	898588	1255	111 - 509	2660	Pro-3 to Glu-10, Asn-17 to Thr-29, Ala-80 to Glu-86, Ser-96 to Ile-101.				AR055: 10, AR061: 8, AR052: 8, AR060: 7, AR033: 5, AR089: 5, AR053: 5, AR104: 4, AR096: 4, AR039: 3 L0758: 2, H0618: 1, H0059: 1, L0789: 1, L0665: 1, L0749: 1 and L0779: 1.			116-133, 61-77
1246	HL2AE66	898739	1256	192 - 1112	2661	Ala-19 to Gln-29.				AR039: 36, AR053: 22, AR033: 18, AR052: 17, AR096: 17, AR104: 16, AR055: 16, AR089: 15, AR061: 11, AR060: 11 H0553: 3, H0556: 2, H0580: 2, L0032: 2, L0743: 2, H0265: 1, S0114: 1,	12p		278-294, 2-18, 199-215

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1247	HHGDQ67	898746	1257	15 - 380	2662		AR104: 442, AR055: 331, AR060: 319, AR033: 211, AR061: 193, AR039: 173, AR089: 148, AR096: 95, AR053: 87, AR052: 0 H0333: 1, H0318: 1 and L0748: 1.						63-80, 106-122
1248	HHFJS83	898792	1258	329 - 931	2663	Glu-5 to Ile-15, Glu-146 to Asn-151, Ser-177 to Gly-184, Glu-186 to Pro-197.	AR104: 2, AR089: 2, AR033: 1, AR052: 1, AR060: 1, AR096: 0, AR061: 0, AR055: 0, AR039: 0, AR053: 0 L0439: 10, L0483: 8, L0770: 7, S0422: 6, L0752: 6, L0754: 5, S0212: 4, L0769: 4, L0663: 4, L0757: 4, L0759: 4, S0003: 3,						19-42, 62-86, 116-134, 91-110

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1249	HSUMA53	898943	1259	94 - 912	2664	Lys-96 to Ser-105, Lys-157 to Ala-162, Leu-170 to Glu-175, Ser-222 to Asn-228, Glu-251 to Arg-262.	AR104: 115, AR061: 99, AR033: 69, AR055: 67, AR060: 65, AR096: 57, AR089: 53, AR053: 45, AR052: 38, AR039: 35 H0040: 4, L0794: 4, L0748: 3, S0002: 2, L0770: 2, L0789: 2, H0521: 2, H0341: 1, H0393: 1, H0586: 1, T0040: 1, H0013: 1, H0266: 1, H0560: 1, H0641: 1, L0372: 1, L0764: 1, L0790: 1, H0539: 1, L0740: 1, S0436: 1 and H0136: 1.				16-41, 119-145, 47-64, 77-94, 104-120
1250	HHFNT70	899099	1260	135 - 1100	2665		AR096: 13, AR055: 11, AR060: 6, AR052: 5, AR033: 5, AR061: 5, AR053: 5, AR039: 3, AR089: 3, AR104: 3 L0748: 19, L0749: 10, L0754: 9, L0747: 6, H0031: 5, L0731: 5, H0553: 4, S0438: 3, H0624: 2, H0171: 2, H0619: 2, H0393: 2,				229-259, 3-20, 28-44

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1251	HLHCH09	899172	1261	208 - 1104	2666	Ile-40 to Val-46, Phe-64 to Thr-69, Ser-98 to Thr-106, Glu-114 to Gly-120, Ser-154 to Phe-167, Thr-175 to Ser-186, Ala-214 to Gly-219, Ser-262 to Ser-275, Pro-283 to Thr-294.	AR052: 8, AR055: 7, AR053: 7, AR061: 7, AR033: 6, AR060: 6, AR089: 6, AR096: 4, AR104: 3, AR039: 3 H0024: 1				230-263, 4-32
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1253	HOGEN56	899358	1263	659 - 3	2668	Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Ser-133, His-162 to Gln-167.	AR053: 3, AR055: 2, AR089: 2, AR061: 2, AR033: 1, AR052: 1, AR060: 1, AR104: 1, AR096: 1, AR039: 0						167-200, 134-162, 59-78, 31-51, 95-112, 7-23
1254	HWLOU33	899644	1264	527 - 1081	2669	Pro-6 to Gly-25, His-31 to His-38, Ile-94 to Glu-99, Lys-107 to Thr-115, Lys-175 to Ser-181.	AR096: 3, AR052: 2, AR089: 2, AR060: 2, AR061: 1, AR033: 1, AR053: 1, AR055: 1, AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803:						137-166

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1256	HDPKJ19	899677	1266	147 - 563	2671		AR039: 5, AR052: 5, AR089: 3, AR060: 3, AR053: 3, AR096: 2, AR104: 2, AR061: 2, AR055: 1, AR033: 1 S0408: 7, S0442: 4, S0360: 4, L0646: 4, H0675: 3, L0764: 3, L0803: 3, S0444: 2, H0574: 2, S0440: 2, L0761: 2, L0662: 2, L0805: 2, L0791: 2, S0374: 2, H0521: 2, L0752: 2, S0436: 2, L0596: 2, H0686: 1, S0354: 1, S0358: 1, S0376: 1, H0147: 1, H0046: 1, H0014: 1, H0494: 1, L0065: 1, L0772: 1, L0642: 1, L0776: 1, L0809: 1, L0529: 1, L0790: 1, H0689: 1, H0648: 1, S0406: 1 and L0755: 1.			46-62, 6-22
1257	HOEJZ65	900050	1267	164 - 535	2672	Lys-13 to Gly-23, Cys-38 to Asp-43, Gly-48 to Trp-53.	AR060: 62, AR096: 53, AR089: 42, AR104: 36, AR033: 32, AR039: 27, AR055: 18, AR052: 14, AR053: 11, AR061: 10	13q14.3	277900, 600631	51-75

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						L0766: 1, L0549: 1, L0803: 1, L0375: 1, L0376: 1, L0776: 1, L0606: 1, L0653: 1, L0607: 1, L0512: 1, L0517: 1, L0809: 1, S0053: 1, H0144: 1, L0565: 1, H0689: 1, H0682: 1, H0651: 1, S0378: 1, H0710: 1, S0392: 1, H0626: 1, L0748: 1, L0779: 1, L0755: 1, L0757: 1, H0445: 1, S0308: 1, H0343: 1, L0593: 1, L0362: 1, L0366: 1, S0026: 1, L0097: 1, S0194: 1, S0196: 1, H0422: 1, S0460: 1, H0506: 1 and H0352: 1.			54-72
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1258	HHASY37	900177	1268	675 - 989	2673				

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1260	HBXCF11	900775	1270	63 - 1421	2675	Pro-30 to Thr-36, Lys-185 to Cys-193, Ala-224 to Asn-229, Ile-252 to Gly-260, Thr-280 to Asn-288, Ser-301 to Gln-308, Ser-332 to Asn-342, Gly-357 to Ser-364, Asp-376 to Val-382, Glu-411 to Gln-419.	AR055: 2, AR033: 2, AR096: 2, AR060: 1, AR061: 1, AR052: 1, AR039: 1, AR089: 1, AR053: 0, AR104: 0 H0551: 5, H0521: 4, S0007: 3, H0090: 3, S0038: 3, L0519: 3, S0126: 3, S0027: 3, L0439: 3, S0212: 2, S0282: 2, H0550: 2, H0492: 2, H0373: 2, H0553: 2, S0036: 2, L0565: 2, H0522: 2, L0599: 2, L0366: 2, H0542: 2, S6024: 1, S0116: 1, H0305: 1, H0580: 1, S0278: 1, H0437: 1, S6014: 1, H0013: 1, H0575: 1, S0010: 1, S0665: 1, S0346: 1, S0474: 1, H0581: 1, H0052: 1, L0471: 1, H0014: 1, H0051: 1, S0003: 1, H0644: 1, L0142: 1, S0364: 1, H0591: 1, H0488: 1, H0494: 1, H0560: 1, S0150: 1, H0529: 1, L0662: 1, L0794: 1, L0804: 1, L0789: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, L0602:			34-62, 88-112, 147-177, 311-335, 122-148, 195-223, 428-448, 229-249, 385-404, 1-17

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1261	HKIXQ06	900956	1271	57 - 566	2676		AR052: 9, AR039: 8, AR033: 8, AR104: 8, AR053: 8, AR060: 8, AR055: 8, AR089: 7, AR096: 7, AR061: 7 L0766: 7, H0441: 3, L0748: 3, H0327: 2, L0787: 2, L0749: 2, L0780: 2, L0785: 1, S0360: 1, H0728: 1, H0599: 1, S0010: 1, H0375: 1, H0674: 1, L0770: 1, L0769: 1, L0761: 1, L0794: 1, L0788: 1, S0052: 1, H0658: 1, L0750: 1, L0731: 1, L0759: 1 and S0196: 1.			141-165, 113-129
1262	HUFDB55	900993	1272	30 - 1619	2677		AR089: 2, AR096: 1, AR060: 1, AR104: 1, AR039: 1, AR061: 1, AR055: 1, AR033: 0, AR052: 0, AR053: 0 S0358: 2, L0769: 2, L0646: 2, L0764: 2, S0404:			425-458

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1263	HFKLY39	901208	1273	172 - 783	2678	Asn-100 to Gly-105, Asn-114 to Leu-126, Ser-133 to Thr-139, Lys-146 to Cys-151, Tyr-188 to Pro-200.	AR033: 19, AR104: 16, AR096: 9, AR089: 8, AR052: 8, AR039: 8, AR053: 7, AR055: 6, AR060: 4, AR061: 3 L0439: 19, L0776: 6, L0438: 5, S0360: 3, S0408: 3, H0620: 3, S0214: 3, L0649: 3, L0805: 3, L0663: 3, L0665: 3, L0777: 3, H0656: 2, S0376: 2, H0046: 2, S0003: 2, L0770: 2, L0771: 2, L0773: 2, L0803: 2, L0666: 2, S0406: 2, H0478: 2, L0755: 2, L0759: 2, S0116: 1, H0341: 1, H0662: 1, S0356: 1, S0045: 1, H0619: 1, H0393: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, L0022: 1, H0575: 1, S0010: 1, S0346: 1, H0505: 1, H0421: 1, H0052: 1, H0263: 1, H0596: 1, T0110: 1, H0457: 1, L0471: 1, H0375:				32-70, 67-99, 10-42, 167-183

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1264	HUFAY01	901287	1274	32 - 1660	2679	Ser-4 to Arg-11, Ser-13 to Gly-18, Val-88 to Asp-103, Pro-105 to Ser-110, Arg-129 to Lys-135, Pro-151 to Gly-168, Ala-172 to Ser-177, Pro-185 to Lys-190, Asn-200 to Phe-205, Gln-214 to Tyr-220, Arg-245 to Asp-250,	AR096: 4, AR052: 4, AR053: 4, AR089: 4, AR055: 3, AR104: 3, AR033: 2, AR061: 2, AR060: 2, AR039: 0 S0020: 6, L0749: 5, L0803: 4, S0356: 3, S0358: 3, L0790: 3, L0777: 3, H0556: 2, H0656: 2, S0442: 2, H0580: 2, H0581: 2, L0771: 2, L0649: 2, L0774:			394-423, 446-470, 262-283, 338-356, 366-385, 291-307, 475-491, 20-36

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1265	HAHCK43	901386	1275	28 - 522	2680	Gln-24 to Gly-29, Leu-43 to Ser-48,	AR055: 291, AR033: 131, AR061: 129, AR060: 117,			

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1266	HETHC61	901421	1276	82 - 819	2681	Arg-24 to Leu-33, Lys-42 to Arg-48, Asp-65 to Thr-70, Glu-111 to Leu-119, Gln-129 to Ser-138, Ser-153 to Trp-158, Pro-163 to Asp-175.	AR055: 5, AR061: 4, AR052: 4, AR060: 4, AR089: 4, AR033: 4, AR053: 2, AR039: 2, AR104: 2, AR096: 2 H0046: 3, H0483: 2, S0040: 1, S0356: 1, S0360: 1, S0476: 1, S0222: 1, L0021: 1, H0024: 1, H0494: 1, S0466: 1, S0344: 1, L0761: 1, L0766: 1, L0388: 1, H0593: 1, L0439: 1 and L0757: 1.					275-293, 308-324, 78-94, 112-128
1267	HNSME80	901436	1277	251 - 1474	2682	Tyr-19 to Gly-27, Glu-39 to Arg-46, Thr-106 to Glu-112, Gln-138 to Thr-146, Ser-180 to Lys-190,	AR039: 32, AR033: 15, AR053: 14, AR104: 13, AR089: 13, AR096: 12, AR052: 12, AR060: 9, AR055: 8, AR061: 5						

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1268	H6EDK67	901529	1278	92 - 667	2683	Lys-23 to Arg-28, Glu-115 to Asp-120, Lys-126 to Asp-149.	AR089: 29, AR052: 20, AR033: 17, AR053: 16, AR104: 11, AR096: 10, AR060: 10, AR055: 9, AR061: 6, AR039: 4				36-55, 171-187

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1269	HMSCY51	901561	1279	72 - 1448	2684	Lys-70 to Gly-76, Glu-121 to Leu-137,	AR053: 16, AR096: 16, AR060: 13, AR052: 13,			

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1270	HTXMM27	901592	1280	721 - 245	2685	Arg-29 to Ile-39, Pro-51 to Pro-57, Asn-112 to Thr-118.	AR039: 9, AR053: 6, AR055: 6, AR096: 6, AR033: 5, AR089: 4, AR052: 4, AR104: 4, AR060: 4, AR061: 3 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2,					

						L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640: 1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and H0008: 1.			
						AR052: 4, AR055: 4, AR061: 4, AR033: 4, AR053: 3, AR060: 3, AR089: 3, AR096: 2, AR039: 1, AR104: 1 L0754: 25, H0556: 9, L0439: 5, L0745: 5, L0755: 5, L0764: 4, L0744: 4, H0046: 3, H0617: 3, L0794: 3, L0766: 3, L0666: 3,			74-101, 47-72, 155-175, 16-32, 182-198
1271	HTXPO61	901690	1281	83 - 853	2686				

						H0265: 2, H0402: 2, S0356: 2, H0052: 2, H0622: 2, H0644: 2, H0616: 2, L0372: 2, H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0777: 2, L0731: 2, L0758: 2, L0588: 2, L0594: 2, H0295: 1, H0381: 1, H0661: 1, S0418: 1, S0410: 1, S0045: 1, H0614: 1, H0333: 1, H0643: 1, H0486: 1, H0042: 1, T0082: 1, H0178: 1, H0014: 1, H0083: 1, H0356: 1, H0030: 1, H0553: 1, L0055: 1, H0591: 1, H0038: 1, H0040: 1, H0087: 1, H0412: 1, H0059: 1, T0042: 1, H0494: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L0796: 1, L0651: 1, L0659: 1, L0565: 1, H0520: 1, H0658: 1, H0522: 1, L0741: 1, L0749: 1, L0779: 1 and S0452: 1.			52-82
1272	HLWAM6 2	902115	1282	95 - 895	2687	Lys-14 to Ala-21, Ala-39 to Gly-52.	AR039: 31, AR104: 27, AR033: 25, AR053: 17, AR096: 13, AR089: 12, AR052: 11, AR060: 9, AR055: 9, AR061: 6			

1273	HFXLK46	902129	1283	175 - 846	2688	Arg-23 to Ile-31, Ala-112 to Trp-119.	AR096: 2, AR055: 1, AR089: 1, AR060: 1, AR061: 1, AR033: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 S0028: 6, S0260: 4, S0282: 3, L0005: 2, L0476: 2, S0278: 2, H0318: 2, S0144: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0049: 1, H0416: 1, H0617: 1, S0036: 1, H0164: 1, S0150: 1, S0428: 1, S0216: 1, S0044: 1, S0146: 1 and S0031: 1.			41-69, 1-21, 62-79, 149-165, 82-98
1274	HBMXK78	902144	1284	490 - 816	2689	Lys-12 to Phe-17, Leu-67 to Trp-81.	AR096: 7, AR033: 7, AR089: 6, AR060: 5, AR053: 5, AR052: 5, AR055: 4, AR104: 3, AR061: 2, AR039: 1 L0754: 7, L0599: 4, L0805: 3, H0716: 2, S0046: 2, H0545: 2, H0615: 2, H0529: 2, L0794: 2, H0539: 2, H0478: 2, L0777: 2, L0752: 2, H0170: 1, S0116: 1, S0360: 1, S0408: 1, H0728: 1, H0351: 1, H0331: 1, H0156: 1, H0599: 1,			79-98

							H0575: 1, T0082: 1, H0581: 1, H0230: 1, H0196: 1, H0350: 1, S0051: 1, H0266: 1, H0553: 1, H0090: 1, H0647: 1, S0426: 1, L0643: 1, L0363: 1, L0766: 1, S0374: 1, S0126: 1, H0522: 1, S0390: 1, L0740: 1, L0756: 1, L0753: 1, L0755: 1 and S0026: 1.			
1275	HE8TF48	902236	1285	205 - 1476	2690	Met-1 to Cys-6, Ala-41 to Tyr-49, Lys-76 to Lys-84, Ser-197 to Lys-208, Pro-213 to Thr-220, Gln-286 to Lys-294, Ala-375 to Arg-391, Leu-397 to Thr-423.	AR061: 2, AR060: 2, AR033: 1, AR089: 1, AR055: 1, AR096: 0, AR039: 0, AR052: 0, AR053: 0 L0803: 4, L0777: 4, L0157: 3, L0794: 3, L0766: 3, L0776: 3, L0758: 3, H0013: 2, H0251: 2, L0471: 2, H0051: 2, S0003: 2, S0036: 2, L0598: 2, L0805: 2, L0655: 2, L0789: 2, L0666: 2, H0521: 2, L0747: 2, L0756: 2, L0779: 2, L0759: 2, L0591: 2, L0362: 2, H0422: 2, S0218: 1, H0656: 1, H0661: 1, H0638: 1, S0418: 1, S0356: 1, S0354: 1, S6022: 1, H0600: 1, H0587: 1, H0574: 1,			51-76, 302-326, 18-37, 331-353, 108-125, 147-167, 228-245, 125-141, 355-372, 268-284

						S0010: 1, H0052: 1, H0596: 1, H0327: 1, H0178: 1, H0355: 1, H0266: 1, H0328: 1, H0268: 1, H0056: 1, H0623: 1, S0150: 1, S0142: 1, S0344: 1, UNKWN: 1, L0646: 1, L0764: 1, L0363: 1, L0767: 1, L0386: 1, L0774: 1, L0775: 1, L0659: 1, H0660: 1, H0648: 1, S0328: 1, S0152: 1, H0522: 1, S0392: 1, S0028: 1, L0751: 1, H0445: 1 and L0599: 1.			222-241, 122-147, 24-42, 66-85, 202-218, 149-165
1276	HMUAL57	902291	1286	181 - 957	2691	Gln-180 to His-187, Arg-191 to Lys-196.	AR039: 34, AR052: 21, AR104: 20, AR096: 17, AR053: 17, AR033: 15, AR089: 15, AR060: 12, AR055: 10, AR061: 9 S0364: 1, H0529: 1, L0764: 1, L0806: 1, L0657: 1, L0809: 1, H0690: 1 and S0152: 1.			
1277	HWCAD85	902684	1287	250 - 1182	2692	Pro-6 to Gly-25, Lys-37 to Ala-55, Phe-107 to Phe-117, Ser-133 to Pro-139, Ile-149 to Cys-156, Gln-169 to Ile-176,	AR060: 8, AR096: 4, AR052: 4, AR053: 2, AR039: 2, AR033: 2, AR089: 2, AR061: 2, AR055: 1, AR104: 1 H0521: 4, L0599: 4,			223-239, 71-87, 269-285, 183-199

					Leu-301 to Pro-310.	T0049: 3, L0659: 3, H0539: 3, L0748: 3, L0755: 3, H0069: 2, H0038: 2, S0144: 2, S0142: 2, S0344: 2, L0770: 2, L0662: 2, L0775: 2, L0744: 2, L0752: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0254: 1, H0402: 1, H0638: 1, S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0581: 1, H0310: 1, H0687: 1, S0294: 1, S0426: 1, L0644: 1, L0768: 1, L0766: 1, L0774: 1, L0790: 1, L0666: 1, L0665: 1, S0126: 1, S0152: 1, H0522: 1, L0779: 1, L0777: 1, H0445: 1, S0276: 1 and H0423: 1.				
					Ser-70 to Asn-76, Pro-144 to Gly-157.	AR039: 12, AR096: 9, AR089: 9, AR053: 8, AR033: 7, AR104: 6, AR052: 6, AR060: 6, AR055: 6, AR061: 3 L0755: 8, L0804: 5, L0805: 4, L0777: 4, H0014: 3, S0360: 2, H0581: 2, H0553: 2, S0344: 2, S0374: 2, H0672: 2, L0362: 2, H0662: 1, S0356: 1, S0444:				157-187, 44-65, 184-202, 87-103, 121-138
1278	HLWCJ37	902841	1288	295 - 954	2693					

						1, H0580: 1, S0278: 1, H0586: 1, H0318: 1, H0251: 1, S0466: 1, S0438: 1, L0763: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0790: 1, S0328: 1, H0521: 1, L0748: 1, L0749: 1, H0595: 1 and S0424: 1.					135-160, 98-117, 38-59, 75-91
1279	HUFDC04	903101	1289	120 - 668	2694	Tyr-164 to Leu-169, Thr-175 to Lys-183.	AR089: 2, AR033: 2, AR096: 2, AR055: 2, AR104: 2, AR052: 1, AR061: 1, AR060: 1, AR053: 0, AR039: 0 L0748: 12, L0777: 5, L0769: 4, L0774: 4, L0740: 4, H0556: 3, H0619: 3, H0494: 3, S0126: 3, L0754: 3, H0052: 2, H0620: 2, H0024: 2, H0617: 2, L0770: 2, H0521: 2, S0206: 2, L0591: 2, H0667: 2, H0265: 1, H0713: 1, H0717: 1, H0295: 1, T0049: 1, H0341: 1, H0661: 1, S0420: 1, S0408: 1, S0410: 1, S0046: 1, S0278: 1, H0441: 1, T0039: 1, H0013: 1, H0156: 1, H0309: 1, H0544: 1, H0046: 1, H0099: 1, S0250: 1, H0087: 1, T0069: 1,					

						S0438: 1, S0440: 1, H0131: 1, S0422: 1, L0369: 1, L0520: 1, L0772: 1, L0641: 1, L0764: 1, L0803: 1, L0775: 1, L0806: 1, L0805: 1, L0384: 1, L0666: 1, S0374: 1, H0682: 1, H0658: 1, H0696: 1, S0392: 1, S3014: 1, S0027: 1, S0028: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, L0755: 1, L0731: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0592: 1, H0665: 1, H0542: 1, H0543: 1 and H0506: 1.			48-80, 106-125, 137-53
1280	HHEXO15	903309	1290	137 - 547	2695	Leu-29 to Thr-36, Phe-85 to Asn-96.	AR039: 34, AR104: 27, AR033: 21, AR096: 20, AR089: 15, AR053: 14, AR061: 14, AR060: 13, AR052: 13, AR055: 13 S0278: 15, S0126: 13, L0742: 13, L0758: 10, L0751: 8, L0754: 8, L0747: 8, L0748: 7, H0305: 6, S0360: 6, H0545: 6, L0776: 6, L0744: 6, H0484: 5, H0638: 5, S0007: 5, S0045: 5, H0530: 5, H0617: 5, S0144: 5, L0766: 5, L0805:				

						1, H0252: 1, H0328: 1, S0368: 1, H0604: 1, H0553: 1, H0673: 1, H0708: 1, H0316: 1, H0598: 1, H0040: 1, H0063: 1, H0264: 1, H0413: 1, S0038: 1, T0041: 1, H0560: 1, H0625: 1, S0464: 1, S0438: 1, S0440: 1, H0130: 1, H0641: 1, H0529: 1, L0369: 1, L0371: 1, L0772: 1, L0800: 1, L0642: 1, L0644: 1, L0645: 1, L0521: 1, L0364: 1, L5568: 1, L0523: 1, L0653: 1, L0807: 1, L0527: 1, L0636: 1, L0782: 1, L0809: 1, L0529: 1, L0647: 1, L0664: 1, S0428: 1, S0216: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, S0378: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S3012: 1, S0206: 1, L0740: 1, L0749: 1, L0779: 1, L0759: 1, L0605: 1, L0608: 1, S0106: 1, H0216: 1, S0192: 1 and S0276: 1.				
					Pro-17 to His-27, Pro-29 to Asn-36, Pro-42 to Cys-52,	AR055: 3, AR060: 3, AR052: 2, AR053: 2, AR033: 2, AR089: 2,				79-109
1281	HE8NI05	903697	1291	190 - 609	2696					

					Asp-60 to Asn-73.	AR061: 2, AR104: 1, AR096: 1, AR039: 1 L0666: 3, L0776: 2, L0750: 2, S0222: 1, H0497: 1, H0013: 1, H0009: 1, S0214: 1, H0124: 1, H0090: 1, L0792: 1, H0547: 1, H0519: 1, H0659: 1, L0777: 1, L0758: 1, L0589: 1 and L0608: 1.					
1282	H2CBP53	903718	1292	73 - 1290	2697	Glu-3 to Arg-12, Glu-18 to Gln-42, Pro-158 to Asp-164, Asp-170 to Glu-175.	AR039: 13, AR089: 13, AR096: 13, AR033: 12, AR052: 11, AR053: 10, AR060: 9, AR055: 7, AR061: 6, AR104: 5	1q21.2-q22	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491		71-98, 363-388, 110-126, 254-270, 282-298, 48-64, 305-321, 132-148	
1283	HDPPP18	903850	1293	707 - 1249	2698	Glu-52 to Thr-57, Lys-112 to Lys-117.	AR039: 38, AR089: 19, AR096: 19, AR053: 19,					22-40, 139-162,

							AR033: 17, AR104: 16, AR052: 13, AR060: 12, AR055: 11, AR061: 8 H0553: 2, H0521: 2, H0580: 1, H0641: 1 and H0522: 1.			116-136, 89-109
1284	HSLFD86	903930	1294	1468 - 443	2699	Asp-58 to Glu-64, Asp-162 to Gly-167.	AR096: 3, AR089: 1, AR060: 1, AR061: 1, AR055: 1, AR052: 1, AR039: 1, AR033: 1, AR053: 1, AR104: 0 S0028: 3, H0295: 1, S0045: 1, H0632: 1, S0050: 1, H0271: 1, H0100: 1, S0150: 1 and S0052: 1.			107-123
1285	HTLDD85	904049	1295	125 - 868	2700	Gly-8 to Trp-73, Leu-75 to Lys-80, Arg-169 to Met-174, Phe-203 to Lys-210, Pro-216 to Lys-248.	AR055: 17, AR039: 11, AR053: 9, AR060: 9, AR052: 9, AR033: 8, AR089: 7, AR061: 7, AR096: 6, AR104: 4 H0616: 14, H0038: 12, H0618: 6, H0253: 5, L0758: 5, L0768: 4, H0411: 2, L0779: 2, L0151: 1, L0697: 1 and S0398: 1.			173-198, 148-170, 91-113, 112-133
1286	HDTIZ68	904058	1296	167 - 1021	2701	Met-1 to Arg-11, Leu-16 to Lys-23, Pro-32 to Gly-45, Pro-118 to Ala-134,	AR096: 6, AR052: 3, AR053: 3, AR033: 2, AR089: 2, AR060: 2, AR055: 2, AR104: 1,	13q32-34	153900, 156600, 180381, 227500,	43-71, 216-232

					Gly-137 to Val-142, Ser-153 to Ser-162, Leu-178 to Asn-183, Met-236 to Tyr-246.	AR061: 1, AR039: 0 H0423: 6, H0638: 3, H0560: 3, H0529: 3, H0521: 3, H0445: 3, L0362: 3, S0356: 2, S0358: 2, H0486: 2, H0581: 2, L0695: 2, H0412: 2, L0770: 2, L5568: 2, S0328: 2, L0748: 2, L0756: 2, L0777: 2, H0422: 2, H0624: 1, S0116: 1, H0341: 1, H0402: 1, H0125: 1, S0360: 1, H0574: 1, L0105: 1, H0318: 1, S0474: 1, H0421: 1, L0041: 1, H0179: 1, H0688: 1, H0622: 1, H0038: 1, H0488: 1, H0641: 1, S0142: 1, S0344: 1, L0369: 1, L0794: 1, L0766: 1, L0804: 1, L0784: 1, L0776: 1, L0663: 1, S0428: 1, H0435: 1, H0522: 1, H0134: 1, S0028: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, H0343: 1, S0196: 1 and H0542: 1.			227600, 232000, 238970, 256731, 602085	
1287	HDAAV92	904116	1297	92 - 727	2702	His-13 to His-34, Lys-113 to Leu-122, Gly-151 to Trp-161.	AR039: 9, AR052: 5, AR053: 4, AR096: 3, AR089: 2, AR061: 2, AR055: 2, AR060: 2,					66-90, 46-67

AR033: 2, AR104: 1 H0046: 17, S0358: 9, L0748: 9, H0590: 8, L0766: 7, H0574: 6, L0764: 6, L0659: 6, L0663: 6, L0749: 5, S0442: 4, L0755: 4, L0601: 4, S0360: 3, H0036: 3, L0761: 3, L0794: 3, H0657: 2, S0444: 2, S0408: 2, H0263: 2, H0510: 2, H0622: 2, H0560: 2, S0002: 2, H0529: 2, L0372: 2, L0800: 2, L0649: 2, L0803: 2, L0791: 2, L0666: 2, S0374: 2, H0690: 2, L0777: 2, L0596: 2, H0423: 2, H0556: 1, H0713: 1, H0583: 1, H0650: 1, S0354: 1, S0376: 1, H0580: 1, H0619: 1, H0497: 1, H0632: 1, H0069: 1, L0022: 1, H0575: 1, H0014: 1, H0266: 1, H0271: 1, H0416: 1, S0003: 1, H0111: 1, H0038: 1, H0616: 1, H0625: 1, H0561: 1, S0440: 1, H0646: 1, S0426: 1, L0770: 1, L0769: 1, L0667: 1, L0772: 1, L0373: 1, L0645: 1, L0768: 1, L0533: 1, L0804: 1,						

					L0775: 1, L0527: 1, L0783: 1, L0809: 1, L0664: 1, L0438: 1, H0660: 1, H0521: 1, S0404: 1, S0406: 1, L0751: 1, L0747: 1, L0750: 1, L0756: 1, L0780: 1, H0707: 1, S0011: 1 and H0422: 1.				
1288	HDPGH33	904204	1298	257 - 1186	2703	Ser-44 to Ser-64, Glu-84 to Ile-90, Pro-93 to Gly-108, Leu-122 to Thr-129, Ser-183 to Gly-188, Thr-191 to Ser-208, Pro-214 to Thr-223, Arg-283 to Gly-288, Asp-293 to Ser-310.	AR052: 3, AR096: 1, AR055: 1, AR039: 1, AR089: 1, AR060: 0, AR061: 0, AR104: 0, AR053: 0, AR033: 0 S0410: 5, S0358: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, H0638: 2, S0354: 2, S0408: 2, H0580: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, S0376: 1, H0586: 1, H0485: 1, H0013: 1, S0003: 1, H0039: 1, T0006: 1, S0386: 1, H0560: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and			252-283, 4-20

							H0653: 1.			
1289	HHEPR52	904360	1299	146 - 568	2704	Glu-19 to Glu-25, Pro-35 to Ser-40, Asn-45 to Asn-54, Arg-79 to Thr-86, Pro-119 to Glu-130.	AR033: 3, AR061: 3, AR055: 2, AR052: 2, AR089: 2, AR053: 2, AR060: 2, AR104: 2, AR096: 2, AR039: 2 L0777: 10, L0758: 9, S0436: 8, L0438: 7, L0748: 7, L0666: 6, H0520: 6, L0439: 6, S0358: 5, L0659: 5, L0809: 5, H0547: 5, L0740: 5, L0747: 5, L0750: 5, H0046: 4, H0135: 4, L0771: 4, L0665: 4, H0660: 4, H0539: 4, L0751: 4, L0749: 4, L0759: 4, H0545: 3, H0009: 3, H0050: 3, H0012: 3, H0620: 3, H0266: 3, L0769: 3, L0764: 3, L0766: 3, L0657: 3, L0663: 3, L0752: 3, H0624: 2, H0341: 2, H0661: 2, S0420: 2, S0360: 2, S0408: 2, H0586: 2, S0005: 2, H0052: 2, L0471: 2, H0024: 2, H0188: 2, H0286: 2, H0182: 2, H0040: 2, H0087: 2, H0551: 2, H0059: 2, H0100: 2, H0494: 2, S0440: 2, L0369: 2, L0773: 2, L0648:			83-116, 1-19

					1, L0770: 1, L0796: 1, L3904: 1, L5565: 1, L3905: 1, L0761: 1, L0772: 1, L0645: 1, L0662: 1, L0363: 1, L0768: 1, L0794: 1, L0804: 1, L0806: 1, L0805: 1, L0653: 1, L0493: 1, L0517: 1, L0782: 1, L0783: 1, L0647: 1, L0789: 1, L0790: 1, H0593: 1, H0689: 1, H0690: 1, S0330: 1, S0044: 1, H0694: 1, H0555: 1, H0626: 1, L0756: 1, L0753: 1, L0755: 1, H0445: 1, S0434: 1, L0592: 1, L0608: 1, L0593: 1, S0196: 1, H0543: 1, H0422: 1, S0424: 1, S0456: 1, H0506: 1 and H0008: 1.			
1290	HSYDY88	904381	1300	161 - 1861	2705	Ser-16 to Ala-29, Asp-49 to Ser-54, Pro-78 to Ala-86, Arg-113 to Gly-120, Gly-170 to Pro-194, Ala-220 to Ser-227, Asp-256 to Pro-261, Glu-300 to Glu-305, Gly-322 to Pro-328, Tyr-389 to Glu-399, Gln-423 to Glu-431,	AR061: 4, AR089: 3, AR033: 3, AR104: 2, AR053: 2, AR096: 1, AR060: 1, AR052: 0, AR039: 0, AR055: 0 H0124: 28, H0013: 8, H0547: 4, H0144: 3, L0595: 3, H0390: 2, S0346: 2, H0012: 2, L0565: 2, L0777: 2, S0001: 1, S0282: 1, S0442: 1, H0619: 1, S0222:			325-345

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1291	HHFCW31	904399	1301	395 - 1516	2706	Ser-6 to Ser-12, Cys-56 to Asp-65, Asn-72 to Glu-79, Lys-94 to Tyr-99, Asn-106 to Tyr-115, Glu-149 to Thr-161, Cys-186 to Phe-191, Ser-197 to Asp-203, Cys-213 to Lys-218, Arg-226 to His-241, Glu-249 to Arg-259, Cys-265 to Phe-272, Pro-287 to Tyr-305, Arg-343 to Ser-370.	AR055: 2, AR060: 1, AR089: 1, AR096: 0, AR033: 0, AR053: 0, AR061: 0, AR039: 0, AR052: 0, AR104: 0 H0674: 3, L0439: 3, L0435: 2, L0540: 2, L0438: 2, L0756: 2, L0759: 2, H0170: 1, H0599: 1, H0178: 1, H0572: 1, H0050: 1, S6028: 1, H0673: 1, L0809: 1, L0666: 1, H0519: 1, S0126: 1, H0696: 1, H0694: 1, L0742: 1 and L0777: 1.				69-94, 21-
1292	HEOPR46	904471	1302	215 -	2707	Arg-40 to Asp-46,	AR052: 37, AR096: 34,				

		598		Gln-106 to Ala-114.	AR053: 21, AR089: 17, AR033: 15, AR104: 14, AR039: 11, AR060: 10, AR061: 2, AR055: 1 H0457: 4, L0766: 3, L0771: 2, L0789: 2, H0556: 1, H0656: 1, H0486: 1, H0009: 1, L0646: 1, L0768: 1, L0794: 1, L0655: 1, L0809: 1, H0701: 1, L0747: 1, L0758: 1, H0707: 1 and H0542: 1.			37, 88-104, 49-65, 1-17	
1293	HDPIF47	904473	1303	63 - 1457	2708	Met-1 to Ala-8, Gly-15 to Gly-22.	AR096: 5, AR052: 4, AR039: 3, AR053: 3, AR089: 3, AR033: 2, AR060: 2, AR055: 2, AR104: 2, AR061: 1 S0474: 19, L0766: 11, H0521: 10, L0803: 6, L0748: 6, L0717: 5, L0759: 5, S0003: 4, H0663: 3, H0156: 3, L0598: 3, L0771: 3, L0804: 3, H0522: 3, L0731: 3, S0436: 3, H0486: 2, S0426: 2, L0770: 2, L0659: 2, S0126: 2, S0406: 2, L0749: 2, L0755: 2, L0757: 2, L0758: 2, L0590: 2, S0026: 2, H0716: 1, H0341: 1, S0212: 1, L0481:			415-443, 257-290, 108-135, 41-60, 209-236, 354-377, 329-351, 394-414, 306-323, 92-109, 131-147	

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1294	HKAIP13	904639	1304	823 - 1938	2709	Arg-26 to Cys-32, Val-108 to Lys-132, Glu-193 to Tyr-198, Pro-232 to Asn-249,	AR052: 5, AR089: 4, AR039: 4, AR104: 3, AR053: 3, AR060: 3, AR033: 2, AR096: 2,				

				Asn-285 to Asp-297, Ala-301 to Ser-308, Tyr-346 to Gly-363, Pro-365 to Ser-372.	AR061: 2, AR055: 2 L0747: 4, L0749: 4, L0748: 3, L0777: 3, S0356: 2, L0803: 2, H0547: 2, H0574: 1, H0510: 1, H0059: 1, H0494: 1, H0520: 1, H0672: 1, L0752: 1, L0595: 1 and S0026: 1.				
1295	HLWEP76	904673	1305	151 - 1740	2710	Ser-23 to Gln-40, Pro-140 to Tyr-145, Glu-175 to Ala-182, Thr-229 to Lys-240, Arg-265 to Glu-277, Gly-454 to Cys-460, Ile-494 to Lys-504, Gly-517 to Thr-524.	AR096: 4, AR033: 3, AR039: 2, AR061: 2, AR104: 2, AR052: 1, AR055: 1, AR060: 1, AR089: 0 H0553: 8, L0754: 8, L0603: 8, L0794: 6, L0758: 6, L0809: 5, S0358: 4, L0769: 4, H0030: 3, L0755: 3, H0265: 2, H0556: 2, S0278: 2, H0549: 2, L0789: 2, L0438: 2, L0750: 2, H0722: 1, S0132: 1, H0550: 1, H0586: 1, H0486: 1, H0635: 1, L0022: 1, H0318: 1, H0310: 1, H0052: 1, H0150: 1, H0009: 1, H0622: 1, H0031: 1, H0040: 1, H0494: 1, H0641: 1, H0647: 1, L0643: 1, L0764: 1, L0649: 1, L0804: 1, L0659: 1, L0793: 1, L0747: 1,				238-266, 465-494, 357-378, 378-405, 114-136, 293-310, 329-347, 57-73, 146-162, 425-441, 188-204, 79-95

							L0756: 1, S0260: 1, H0665: 1 and L0698: 1.			
1296	HTLIT05	904861	1306	153 - 1040	2711	Leu-24 to Thr-31, Lys-92 to Leu-99, Arg-111 to Trp-116, Arg-118 to Thr-128, Thr-162 to Asn-168, Thr-198 to Asp-204.	AR089: 9, AR096: 7, AR060: 5, AR053: 5, AR039: 5, AR055: 4, AR052: 4, AR104: 3, AR061: 3, AR033: 3 H0618: 2, H0040: 1 and H0522: 1.			36-55, 261-281, 204-220
1297	HPTZB93	904877	1307	267 - 935	2712	Asn-24 to Gly-34, Ala-42 to His-57, Trp-68 to Tyr-76, Pro-88 to Gly-94, Phe-109 to Glu-122, Gln-152 to Asp-161, Leu-207 to Gly-215.	AR052: 49, AR096: 44, AR053: 39, AR089: 34, AR039: 30, AR061: 27, AR104: 23, AR055: 21, AR033: 20, AR060: 18 L0805: 50, L0776: 30, L0789: 8, L0750: 4, L0769: 3, L0809: 3, H0424: 2, L0794: 2, L0731: 2, H0231: 1, H0213: 1, H0418: 1, S0370: 1, L0768: 1, L0659: 1, L0788: 1, L0779: 1 and L0758: 1.			170-186, 6-22, 134-150, 93-109
1298	HWLAJ33	904911	1308	270 - 887	2713	Pro-22 to Gly-28, Gln-32 to Gln-38, Ser-105 to Phe-113, Cys-149 to Tyr-155, Ser-186 to His-193, Gln-196 to Trp-205.	AR053: 197, AR052: 188, AR096: 184, AR089: 119, AR104: 98, AR039: 83, AR060: 77, AR033: 73, AR061: 57, AR055: 49 L0748: 5, H0581: 4, H0393: 3, H0250: 2, S0374:			42-72, 87-105, 125-141

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1299	HAGFD47	904977	1309	357 - 1154	2714	Thr-187 to Lys-192, Asn-255 to Leu-262.	AR096: 15, AR053: 12, AR060: 8, AR052: 7, AR089: 7, AR039: 6, AR033: 5, AR055: 5, AR061: 4, AR104: 3 L0439: 6, L0748: 5, L0770: 4, L0771: 4, L0740: 4, H0341: 2, H0596: 2, H0373: 2, H0266: 2, L0766: 2, L0775: 2, L0659: 2, L0663: 2, L0665: 2, S0027: 2, L0601: 2, H0624: 1, H0717: 1, S0114: 1, L0415: 1, L0760: 1, S0116: 1, H0722: 1, H0733: 1, H0411: 1, H0497: 1, H0486: 1, H0427: 1, L0021: 1, S0010: 1, H0318: 1, H0581: 1, H0421: 1, H0744: 1, T0110: 1, H0597: 1, S0003: 1, H0068: 1, H0551: 1, S0440: 1, H0633: 1, S0422: 1,				

					S0002: 1, L0763: 1, L0772: 1, L0764: 1, L0773: 1, L0387: 1, L0650: 1, L0655: 1, L0783: 1, L0384: 1, L0529: 1, L0666: 1, H0691: 1, L0438: 1, H0547: 1, H0670: 1, L0754: 1, L0747: 1, L0755: 1, L0758: 1, S0031: 1, H0665: 1, S0276: 1 and H0543: 1.				141-162, 176-194
1300	HSKAS66	905017	1310	106 - 762	2715	Ser-4 to Arg-9, Phe-24 to Tyr-35, Ala-37 to Gly-42, Val-123 to Thr-129, Thr-162 to Ser-167.	AR033: 6, AR061: 4, AR055: 3, AR089: 3, AR096: 3, AR053: 2, AR060: 2, AR052: 2, AR039: 1, AR104: 1 H0529: 8, L0794: 5, S0424: 4, H0559: 3, H0083: 3, L0769: 3, L0809: 3, L0748: 3, L0759: 3, S0192: 3, H0341: 2, H0587: 2, H0266: 2, H0286: 2, H0623: 2, S0422: 2, L0761: 2, L0783: 2, L0565: 2, L0745: 2, L0756: 2, L0777: 2, H0665: 2, H0739: 1, H0265: 1, H0685: 1, H0657: 1, H0484: 1, S0420: 1, S0358: 1, H0592: 1, H0013: 1, H0427: 1, L0021: 1, S0474: 1, H0581: 1, H0597: 1,				

					H0546: 1, H0046: 1, H0086: 1, H0024: 1, H0604: 1, H0181: 1, H0272: 1, S0438: 1, H0647: 1, S0144: 1, L0639: 1, L0372: 1, L0800: 1, L0644: 1, L0766: 1, L0803: 1, L0382: 1, L0787: 1, L0788: 1, L0663: 1, S0374: 1, H0547: 1, H0593: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0740: 1, L0751: 1, L0746: 1, L0749: 1, L0779: 1, L0757: 1 and S0436: 1.				177-197, 126-142
1301	HOFNT25	905050	1311	2158 - 3012	2716	Glu-8 to Glu-13, Ser-61 to Gly-71, His-118 to Gly-125, Gly-154 to Gln-160, Pro-171 to Arg-177, Arg-200 to Trp-207, Pro-214 to Val-224, Arg-240 to Ser-247.	AR096: 2, AR052: 1, AR060: 1, AR033: 1, AR089: 0, AR061: 0, AR104: 0, AR039: 0, AR055: 0, AR053: 0 L0747: 15, L0758: 7, L0740: 5, L0779: 5, L0534: 3, S0442: 3, S0360: 3, L0769: 3, L0764: 3, L0775: 3, L0776: 3, S0126: 3, L0596: 3, H0663: 2, S0474: 2, H0457: 2, L0157: 2, H0620: 2, L0483: 2, L0803: 2, L0666: 2, L0438: 2, H0696: 2, L0749: 2, L0750: 2, L0756: 2, L0589: 2,				

			L0366: 2, H0624: 1, S0030: 1, H0306: 1, H0402: 1, S0418: 1, S0358: 1, H0441: 1, H0392: 1, H0415: 1, H0333: 1, H0486: 1, H0013: 1, H0427: 1, H0156: 1, H0599: 1, H0318: 1, H0581: 1, H0421: 1, S0049: 1, H0196: 1, H0052: 1, L0040: 1, H0546: 1, L0471: 1, H0014: 1, H0051: 1, H0375: 1, S0003: 1, H0644: 1, L0142: 1, L0143: 1, H0673: 1, H0038: 1, H0040: 1, H0616: 1, S0306: 1, H0207: 1, S0002: 1, H0695: 1, L0638: 1, L0662: 1, L0387: 1, L0766: 1, L0774: 1, L0375: 1, L0807: 1, L0783: 1, L0793: 1, L0664: 1, H0723: 1, H0547: 1, H0689: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, L0602: 1, S0152: 1, H0555: 1, H0436: 1, H0540: 1, S0027: 1, L0748: 1, L0754: 1, L0752: 1, L0755: 1, L0757: 1, L0759: 1, L0608: 1, L0362: 1, H0668: 1, H0665: 1, S0194: 1, H0423: 1 and			

							S0456: 1.			
1302	HWBDL33	905114	1312	545 - 1288	2717	Gln-23 to Lys-39, Glu-150 to Thr-158.	AR096: 18, AR053: 11, AR089: 11, AR039: 11, AR060: 8, AR033: 7, AR104: 7, AR055: 5, AR052: 5, AR061: 4 L0748: 11, H0580: 7, H0575: 7, H0031: 5, H0581: 4, H0522: 4, L0731: 4, S0376: 3, H0529: 3, H0521: 3, S0354: 2, H0427: 2, H0590: 2, T0023: 2, H0090: 2, H0710: 2, H0555: 2, L0751: 2, L0759: 2, S0356: 1, S0444: 1, H0645: 1, H0392: 1, H0587: 1, H0497: 1, H0486: 1, H0250: 1, S0280: 1, H0042: 1, H0318: 1, H0014: 1, H0644: 1, H0068: 1, S0142: 1, L0794: 1, L0805: 1, L0776: 1, S0374: 1, S0380: 1, L0754: 1, L0758: 1, H0445: 1, H0595: 1, S0434: 1, L0362: 1, H0653: 1 and S0424: 1.			178-207, 43-72, 115-138, 87-104
1303	HAABQ61	905116	1313	100 - 1068	2718	Met-1 to Ser-12, Gln-18 to Cys-23, Glu-46 to His-52, Thr-262 to Lys-268.	AR053: 9, AR052: 8, AR096: 6, AR039: 6, AR055: 5, AR089: 5, AR060: 4, AR033: 3,			267-295, 211-238, 236-260, 123-144,

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1304	HFPFA83	905151	1314	202 - 642	2719					

1305	HFIDN52	905157	1315	307 - 1332	2720	Thr-79 to Asn-84, Gly-118 to Arg-127, Lys-141 to Pro-147, Phe-234 to Gln-243, Gln-256 to Asn-270.	AR089: 15, AR104: 11, AR052: 10, AR033: 10, AR096: 8, AR053: 7, AR060: 7, AR055: 6, AR039: 6, AR061: 4 H0038: 12, H0616: 9, L0749: 8, L0758: 8, L0748: 7, H0046: 6, L0777: 6, H0341: 4, L0774: 4, L0809: 4, L0754: 4, L0747: 4, L0752: 4, L0757: 4, H0510: 3, S0438: 3, L0764: 3, L0666: 3, H0547: 3, S0152: 3, L0439: 3, S0436: 3, S0442: 2, H0619: 2, S0222: 2, H0575: 2, H0083: 2, H0644: 2, H0551: 2, S0142: 2, L0770: 2, L0775: 2, S0380: 2, L0759: 2, L0362: 2, H0542: 2, H0423: 2, H0624: 1, S0040: 1, H0716: 1, S0134: 1, S0116: 1, S0282: 1, H0663: 1, H0458: 1, H0638: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, H0730: 1, H0728: 1, H0431: 1, H0403: 1, H0592: 1, H0331: 1, H0574: 1, H0250: 1, S0280: 1, S0010: 1, S0346: 1, H0581: 1,				190-217, 282-298

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1307	HWMFE21	905289	1317	150 - 2288	2722	Arg-48 to Asn-56, Gly-166 to Ser-175, Tyr-250 to Leu-261, Glu-329 to Gly-355, Ala-378 to Tyr-383, Gly-390 to Tyr-413, Pro-422 to Cys-433, Gln-491 to Tyr-496, Phe-511 to Ser-520, Pro-542 to Arg-551, Arg-568 to Val-582, Gly-595 to Glu-601, Gln-608 to Pro-614, Pro-669 to Pro-678.	AR033: 11, AR053: 11, AR089: 9, AR052: 8, AR055: 8, AR096: 7, AR039: 7, AR060: 5, AR061: 4, AR104: 3 H0556: 8, H0521: 8, H0550: 6, L0601: 6, S0358: 5, S0126: 5, S0040: 4, H0662: 4, H0622: 4, S0144: 4, S0027: 4, S0436: 4, H0620: 3, H0266: 3, H0124: 3, H0135: 3, H0551: 3, L0743: 3, L0754: 3, H0667: 3, H0265: 2, H0294: 2, S0134: 2, H0663: 2, S0442: 2, S0376: 2, H0619: 2, H0393: 2, H0370: 2, T0040: 2, H0250: 2, H0599: 2, H0575: 2, H0318: 2, H0597: 2, H0544: 2, H0545: 2, H0050: 2, H0179: 2, H0271: 2, H0428: 2, H0030: 2, H0641: 2, S0210: 2, L0646: 2, L0659: 2, L0666: 2, H0435: 2, H0670: 2, S0328: 2, H0539: 2, S0152: 2, H0555: 2, S3014: 2, S0028: 2, S0031: 2, H0445: 2, H0665: 2, S0192: 2, H0543: 2, H0717: 1, T0049: 1,			438-469, 1-17

1308	HHBEA82	905311	1318	259 - 3081	2723	Gln-33 to Trp-49, Gly-161 to Gly-172, Ile-207 to Arg-212, Asn-414 to Val-419, Val-423 to Gln-428, Val-436 to Gly-441, Lys-467 to Leu-478, Phe-497 to Ser-508, Met-550 to Gly-560, Glu-688 to Thr-697, Ile-711 to Gly-720, Ala-747 to Gly-759, Leu-785 to Phe-791, Ser-795 to Gln-800, Thr-808 to Lys-813, Ser-821 to Phe-832, Thr-879 to Glu-889, Leu-898 to Gln-904, Gln-934 to Met-941.	AR033: 106, AR061: 86, AR096: 76, AR060: 76, AR039: 74, AR055: 70, AR089: 51, AR104: 43, AR052: 40, AR053: 34 H0521: 3, H0373: 1, H0268: 1, L0803: 1 and H0522: 1.			7-28, 132-148, 759-775, 235-251
1309	HWHPC10	905322	1319	172 - 1302	2724		AR096: 1, AR055: 1, AR089: 1, AR060: 1, AR104: 1, AR061: 0, AR039: 0, AR052: 0, AR033: 0 L0748: 5, H0556: 4, H0046: 3, L0766: 3, L0666: 3, L0754: 3, L0757: 3, H0083: 2, H0622: 2, H0623: 2, S0344: 2, L0783: 2, L0789: 2, L0665: 2, L0439:			69-111, 264-287, 5-22, 198-214, 99-115

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1310	HDPXZ89	905371	1320	243 - 3488	2725	Cys-38 to Gly-46, Cys-56 to Cys-63, Lys-70 to Thr-80,	AR039: 1, AR089: 1, AR096: 1, AR060: 1, AR061: 1, AR055: 0,			984-1012, 951-967, 248-264,

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1311	HLICA89	905505	1321	121 - 456	2726	Asn-21 to Pro-26, Pro-35 to Arg-44.	AR033: 4, AR061: 3, AR089: 3, AR060: 2, AR052: 1, AR104: 1, AR055: 0, AR053: 0, AR039: 0, AR096: 0			85-102
1312	HTTDZ50	905792	1322	5 - 2083	2727	Gly-25 to His-31, Thr-54 to Thr-59, Pro-77 to Leu-82, Ser-94 to Asn-99, Ser-187 to Lys-205, Leu-222 to Arg-228, Pro-234 to Ile-249, Tyr-293 to Arg-302, Ser-319 to Asp-337, Thr-408 to Gln-418, Ser-560 to Asn-565, Ser-567 to Gln-588, Glu-643 to Asn-656.	AR096: 105, AR053: 42, AR052: 32, AR089: 16, AR055: 16, AR039: 14, AR061: 11, AR060: 8, AR033: 6, AR104: 4 L0748: 7, H0486: 5, L0740: 5, H0457: 4, H0521: 4, L0439: 4, L0777: 4, H0581: 3, H0040: 3, L0747: 3, L0779: 3, S0040: 2, S0376: 2, H0587: 2, H0013: 2, H0390: 2, H0622: 2, H0591: 2, S0422: 2, L0774: 2, L0659: 2, L0664: 2, L0749: 2, L0758: 2, S0434: 2, L0591: 2, H0423: 2, H0624: 1, H0685: 1, S0342: 1, H0650: 1, H0657: 1, H0300: 1, S0420: 1, S0408: 1, S0045: 1, H0462: 1, S0222: 1, H0574: 1, H0632:			537-556, 656-672, 459-475, 368-384, 623-639, 58-74, 4-20, 260-276

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1313	HTLHL43	905798	1323	299 - 649	2728	His-106 to Asp-116.	AR096: 3, AR033: 3, AR089: 2, AR061: 1, AR060: 1, AR104: 1, AR055: 1, AR039: 0 L0439: 6, L0662: 5, L0438: 5, H0556: 3, L0766: 3, H0521: 3, L0748: 3, L0751: 3, L0599: 3, H0370:				

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1314	HLTAG56	905871	1324	136 - 1566	2729	Ser-248 to Ser-255, Thr-261 to Lys-267, Tyr-335 to Cys-342,	AR033: 10, AR052: 9, AR053: 9, AR104: 8, AR096: 7, AR060: 6,			

						His-466 to Ser-477.	AR089: 6, AR055: 4, AR061: 3, AR039: 3 H0521: 3, S0418: 2, H0266: 2, L0438: 2, H0661: 1, S0358: 1, H0619: 1, H0586: 1, H0620: 1, H0124: 1, H0135: 1, H0090: 1, H0059: 1, H0646: 1, H0538: 1, S0002: 1, L0565: 1, H0435: 1, H0539: 1 and H0631: 1.			198-219, 370-394, 434-456, 145-164, 311-331, 78-98, 13-29, 277-293
1315	HWLHJ13	905994	1325	117 - 1097	2730	Pro-64 to Glu-70, Pro-84 to Lys-90, His-112 to Gly-117, Asn-124 to Tyr-130, Pro-148 to Gln-155, Ser-167 to Pro-173, Gln-267 to Gly-279.	AR096: 21, AR089: 8, AR039: 7, AR033: 5, AR053: 5, AR055: 4, AR060: 3, AR052: 3, AR061: 3, AR104: 2 L0599: 5, S0434: 4, S0358: 3, S0444: 3, H0622: 3, S0354: 2, S0408: 2, H0597: 2, L0809: 2, S0330: 2, S0442: 1, H0085: 1, H0183: 1, L0738: 1, S0440: 1, L0764: 1, L0662: 1, L0659: 1, L0519: 1, L0789: 1, L0790: 1, L0665: 1, S0374: 1, H0689: 1 and L0750: 1.	11q24	600359, 602574, 602574	238-266, 5-28, 133-149
1316	HDQPN32	906000	1326	71 - 1081	2731	Met-1 to His-8, Thr-60 to Asn-70, Gly-116 to Ala-126.	AR096: 9, AR052: 6, AR053: 6, AR039: 5, AR089: 4, AR033: 3,			268-305, 292-317, 99-115

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1317	HOHBT28	906114	1327	168 - 533	2732	Met-1 to Gln-12, Arg-41 to Glu-52.	AR055: 1, AR033: 1, AR096: 1, AR089: 1, AR060: 0, AR039: 0, AR061: 0, AR052: 0, AR104: 0 L0766: 4, L0438: 4, S0152: 4, H0575: 3, H0050: 3, L0757: 3, L0758: 3,			

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1318	HAQCD43	906145	1328	189 - 722	2733	Thr-19 to Ala-33, Leu-54 to Asp-82, Pro-89 to Ala-97, Pro-100 to Lys-125, Ser-127 to Phe-135, Gly-164 to Leu-169, Cys-173 to Arg-178.	AR039: 75, AR052: 36, AR096: 35, AR089: 35, AR033: 34, AR053: 33, AR055: 30, AR104: 28, AR060: 23, AR061: 20 L0777: 14, L0747: 9, S0360: 7, H0617: 7, L0758: 7, S0356: 6, H0486: 6, L0794: 6, L0779: 6, H0038: 5, L0789: 5, H0436: 5, L0748: 5, L0751: 5, L0749: 5, H0294: 4, S0114: 4, H0341: 4, H0255: 4, H0661: 4, H0581: 4, S0022: 4,			

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1319	HTPCP50	906161	1329	67 - 2139	2734				

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1320	HWLCJ12	906285	1330	704 - 1051	2735		AR089: 5, AR039: 2, AR060: 1, AR052: 1, AR061: 1, AR055: 1, AR033: 1, AR096: 0, AR053: 0, AR104: 0 S0356: 4, H0596: 2, H0032: 2, H0685: 1, S0442: 1, S0354: 1, H0270: 1, H0156: 1, H0046: 1, H0622: 1, L0483: 1, H0674: 1, S0440: 1, L0372: 1, L0364: 1, L0805: 1, L0663: 1, S0374: 1, S0434: 1 and L0599: 1.			79-105, 41-57
1321	HTHCK88	906306	1331	646 -	2736	Asp-50 to Ser-58,	AR053: 41, AR096: 28,			168-203,

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1322	HCE3M15	906350	1332	493 - 1455	2737	Met-1 to Asn-6, Asp-103 to Thr-109.	AR053: 12, AR052: 11, AR033: 10, AR096: 10, AR055: 10, AR060: 9, AR089: 8, AR104: 7, AR061: 7, AR039: 3 L0752: 5, L0766: 3, H0586: 2, H0266: 2, H0031: 2, H0433: 2, L0776: 2, L0749: 2, L0758: 2, L0599: 2, H0556: 1, S6024: 1, H0600: 1, H0052: 1, H0545: 1, H0439: 1, H0628: 1, H0080: 1, L0598: 1, L0769: 1, L0637: 1, L0662: 1, L0774: 1, L0807: 1, L0659: 1, L0635: 1, L0666: 1, L0665: 1, L0565: 1, L0438:			277-293, 24-40, 221-237, 111-127

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1323	HSKGT01	906487	1333	219 - 530	2738	Ser-15 to Gly-23.	AR096: 4, AR055: 4, AR052: 4, AR053: 3, AR039: 3, AR060: 3, AR033: 3, AR089: 3, AR104: 3, AR061: 2 L0805: 6, L0770: 5, L0803: 5, L0777: 5, L0776: 3, L0740: 3, L0750: 3, L0759: 3, H0599: 2, T0041: 2, H0670: 2, L0439: 2, L0747: 2, H0341: 1, S0418: 1, S0280: 1, H0318: 1, H0014: 1, S0250: 1, H0252: 1, H0328: 1, H0087: 1, H0494: 1, H0633: 1, L0763: 1, L0796: 1, L0651: 1, L0657: 1, L0558: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, H0519: 1, H0689: 1, H0710: 1, S0152: 1, S3014: 1, L0755: 1, H0445: 1, S0436: 1, L0599: 1, H0423: 1 and H0352: 1.				34-68, 81-97, 63-79

1324	HTAIJ50	906718	1334	57 - 560	2739	Met-1 to Ser-6.	AR053: 23, AR052: 12, AR055: 11, AR096: 6, AR060: 6, AR061: 5, AR033: 5, AR089: 5, AR104: 3, AR039: 3 H0069: 1 and H0635: 1.			96-123, 136-160, 64-82, 22-44
1325	HCRQM01	906770	1335	107 - 952	2740	Trp-72 to Glu-87, Pro-93 to Gly-105, Ser-117 to Ser-128, Trp-150 to Asp-163, Ser-218 to Pro-226.	AR096: 27, AR039: 25, AR033: 21, AR053: 18, AR089: 17, AR055: 14, AR104: 14, AR052: 13, AR060: 11, AR061: 9 L0758: 11, H0547: 10, H0013: 9, L0751: 8, H0486: 7, S0136: 7, L0754: 7, S0356: 6, L0771: 6, L0747: 6, S0134: 5, H0617: 5, S0440: 5, S0422: 5, L0770: 5, L0766: 5, H0696: 5, H0556: 4, H0341: 4, H0251: 4, H0083: 4, H0038: 4, H0040: 4, T0041: 4, H0529: 4, L0769: 4, H0144: 4, H0672: 4, S0330: 4, S0152: 4, L0748: 4, L0439: 4, L0779: 4, L0759: 4, H0543: 4, H0171: 3, H0657: 3, S0418: 3, S0360: 3, S0046: 3, H0574: 3, H0024: 3, H0412: 3, T0042: 3, L0764: 3, L0521: 3, L0794: 3,			12-37, 226-252, 258-274

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1326	HPJAS61	906877	1336	129 - 1445	2741	Leu-5 to Tyr-13, Phe-51 to Gly-63, Ser-178 to Trp-185, Phe-253 to Thr-259, Thr-267 to Trp-273, Arg-284 to Phe-292, Arg-416 to Pro-424.	AR089: 8, AR060: 5, AR096: 5, AR053: 4, AR061: 4, AR039: 4, AR052: 3, AR055: 3, AR033: 2, AR104: 1, L0747: 13, L0794: 10, L0740: 10, S0406: 8, L0751: 8, L0659: 7, L0748: 6, L0803: 5, L0775: 5, L0771: 4, L0662: 4, L0756: 4, S0436: 4, S0356: 3, S0358: 3, H0046: 3, H0068: 3, L0764: 3, L0591: 3, S0376: 2, S0360: 2, S0045: 2, S0046: 2, S0049: 2, H0263: 2, H0123: 2, H0553: 2, H0623: 2, S0440: 2, L0761: 2, L0643: 2, L0773:	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145	386-418, 323-339, 346-362		

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1327	HTEKL48	906879	1337	311 - 763	2742	Arg-3 to Pro-9.	AR033: 3, AR039: 2, AR089: 2, AR055: 1, AR061: 1, AR052: 1, AR060: 1, AR096: 1, AR053: 0, AR104: 0 H0023: 6, H0266: 5, H0286: 5, H0038: 4, S3014: 3, L0439: 3, S0011: 3, S0046: 2, H0635: 2, H0510: 2, H0616: 2, S0404: 2, H0436: 2, S0027: 2, S0040: 1, S0134: 1, S0116: 1, S0442: 1, S0444: 1, S0410: 1, H0393: 1, H0549: 1, H0431: 1, H0455: 1, H0600: 1, H0599: 1, T0082: 1, T0115: 1, H0544: 1, H0545: 1, H0563: 1, L0471: 1, H0267: 1, H0292: 1, S0214: 1, H0031: 1, H0644: 1, S0036: 1, H0163: 1, S0440: 1, L0662: 1, L0803: 1, L0805: 1, L0656: 1, L0558: 1, L0517: 1, L0809: 1, L0665: 1, H0144: 1, L0438:			79-95

							1, H0520: 1, H0710: 1, H0522: 1, H0696: 1, H0478: 1, S0028: 1, S0206: 1, L0749: 1, S0434: 1, S0436: 1, L0596: 1, L0603: 1, H0667: 1 and H0136: 1.			
1328	HUVFI01	906880	1338	103 - 1212	2743	Phe-3 to Ser-9, Glu-64 to Lys-73, Lys-108 to Gly-118, Tyr-140 to Asp-150, Lys-182 to Leu-192.	AR055: 3, AR060: 3, AR053: 3, AR033: 3, AR096: 3, AR089: 3, AR052: 2, AR061: 2, AR039: 1, AR104: 0	6p21.1-p12	179605, 179605, 179605, 179605, 179605, 180297, 230450, 248611, 263200, 600364, 601498, 601690	20-50, 70-97, 118-136, 247-274, 283-310, 201-220
1329	HHAOD94	906886	1339	859 - 308	2744	Trp-15 to Asn-25, Asp-87 to Glu-92, Lys-117 to Thr-123.	AR033: 9, AR052: 8, AR096: 8, AR104: 7, AR060: 6, AR053: 6, AR089: 5, AR055: 2, AR039: 2, AR061: 1 S0358: 8, L0777: 8, L0779: 6, L0766: 5, L0752: 5, L0775: 4, L0362: 4, L0803: 3, H0657: 2, H0441: 2, L0372: 2, L0784: 2, L0809: 2, L0665: 2, S0126:			147-167, 98-115, 64-80

					2, L0756: 2, L0755: 2, L0758: 2, L0759: 2, H0170: 1, H0171: 1, S0418: 1, S0360: 1, H0632: 1, S0346: 1, L0471: 1, H0373: 1, H0266: 1, S0334: 1, H0316: 1, H0412: 1, H0202: 1, S0440: 1, S0422: 1, L0763: 1, L0638: 1, L0764: 1, L0773: 1, L0662: 1, L0649: 1, L0804: 1, L0774: 1, L0666: 1, H0144: 1, H0691: 1, H0547: 1, H0690: 1, H0660: 1, S0136: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, H0343: 1, S0026: 1 and H0543: 1.			114-131, 80-96
1330	HAGGF22	906890	1340	271 - 690	2745	His-6 to Glu-14, Arg-35 to Gln-40, Asp-103 to Glu-108, Lys-133 to Ala-138.	AR052: 18, AR033: 13, AR055: 13, AR104: 12, AR060: 11, AR053: 11, AR096: 9, AR089: 8, AR061: 6, AR039: 5 S0358: 8, L0777: 8, L0779: 6, L0362: 6, L0766: 5, L0752: 5, L0775: 4, L0803: 3, L0759: 3, H0171: 2, H0657: 2, S0222: 2, H0441: 2, L0372: 2, L0784:				

						2, L0809: 2, L0665: 2, S0126: 2, L0740: 2, L0756: 2, L0755: 2, L0758: 2, H0170: 1, S0418: 1, S0360: 1, H0632: 1, H0036: 1, S0010: 1, S0346: 1, L0471: 1, H0014: 1, H0373: 1, H0266: 1, S0334: 1, H0328: 1, H0316: 1, S0036: 1, H0412: 1, H0202: 1, S0440: 1, S0150: 1, H0646: 1, S0422: 1, L0763: 1, L0638: 1, L0764: 1, L0773: 1, L0662: 1, L0649: 1, L0804: 1, L0774: 1, L0666: 1, H0144: 1, H0691: 1, H0547: 1, H0519: 1, H0690: 1, H0683: 1, H0660: 1, S0136: 1, S0404: 1, S0406: 1, S0028: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, H0445: 1, H0343: 1, S0011: 1, S0026: 1 and H0543: 1.			134-150, 68-84, 46-62
1331	HLJDM86	906945	1341	113 - 565	2746	Glu-35 to Lys-42, Arg-96 to Ile-116.	AR033: 16, AR039: 14, AR096: 12, AR089: 12, AR104: 10, AR052: 10, AR060: 10, AR053: 10, AR055: 8, AR061: 4			

1332	HTJMG26	906957	1342	45 - 1118	2747	Tyr-24 to Cys-30.			218-243, 131-150, 47-68, 71-90, 189-206	
						AR096: 4, AR039: 4, AR053: 3, AR052: 3, AR089: 3, AR033: 2, AR104: 2, AR061: 2, AR060: 2, AR055: 2 S0410: 11, L0803: 4, L0659: 4, H0618: 3, H0135: 3, L0637: 3, L0809: 3, L0666: 3, H0696: 3, L0779: 3, S0376: 2, S0132: 2, H0592: 2, H0253: 2, H0050: 2, H0087: 2, H0560: 2, L0761: 2, S0374: 2, L0743: 2, L0751: 2, L0749: 2, L0731: 2, L0759: 2, H0542: 2, H0543: 2, H0171: 1, H0225: 1, H0341: 1, S0212: 1, H0483: 1, S0444: 1, S0408: 1, H0393: 1, L0717: 1, H0370: 1, H0249: 1, H0486: 1, H0101: 1, H0250: 1, H0706: 1, T0048: 1, H0581: 1, H0545: 1, H0009: 1, H0024: 1, H0271: 1, H0288: 1, H0617: 1, S0364: 1, H0163: 1, H0551: 1, H0488: 1, H0100: 1, H0494: 1, L4497: 1, L0770: 1, L0769: 1, L5575: 1, L5565: 1, L3905: 1, L0646: 1,				

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1333	HDPJZ04	906960	1343	160 - 762	2748	Met-1 to Tyr-15, His-19 to Asn-25, Ser-94 to Trp-103, Val-125 to Asn-131, Glu-149 to Phe-154, Thr-164 to Asn-173.	AR039: 30, AR096: 23, AR089: 17, AR104: 16, AR052: 13, AR053: 12, AR033: 11, AR060: 11, AR055: 3, AR061: 2 H0521: 21, H0522: 3, H0090: 2, L0759: 2, H0638: 1, S0356: 1, S0360: 1, H0619: 1, L0021: 1, H0457: 1, H0111: 1, H0598: 1, S0426: 1, S0052: 1 and H0539: 1.			36-74, 173-189
1334	HNTND88	906998	1344	150 - 1346	2749	Met-1 to Glu-16, Pro-27 to Ser-32, His-46 to Phe-58, Gln-67 to Arg-75, Arg-209 to Tyr-214, Ser-235 to Arg-244, Ser-303 to Asn-311.	AR053: 3, AR052: 3, AR033: 3, AR096: 2, AR089: 2, AR104: 2, AR060: 1, AR039: 1, AR061: 1, AR055: 0 H0616: 3, L0748: 3, L0756: 3, H0356: 2, L0766: 2, L0803: 2, H0672: 2,	1p13	102770, 188540, 600234, 601414, 601691, 601691, 601691, 601691,	243-270, 149-171, 282-300, 373-389, 170-186, 114-130

					L0439: 2, L0465: 2, H0586: 1, H0497: 1, H0013: 1, H0024: 1, H0124: 1, H0561: 1, L0774: 1, L0664: 1, L0438: 1, H0520: 1, H0519: 1, H0539: 1, H0631: 1, L0747: 1, S0192: 1, S0276: 1 and H0352: 1.		601718, 602094		
1335	HJABT11	907007	1345	245 - 994	2750	Arg-38 to Ala-51, Pro-53 to His-68, Pro-94 to Arg-103, Met-111 to Leu-118, Arg-159 to Gly-165, Gly-235 to Arg-242, Pro-245 to Glu-250.	AR053: 5, AR055: 5, AR033: 4, AR052: 4, AR089: 3, AR096: 2, AR060: 2, AR061: 2, AR104: 0 L0439: 5, L0769: 4, T0041: 3, L0794: 3, S0380: 3, L0748: 3, T0006: 2, H0673: 2, L0809: 2, S0378: 2, H0556: 1, H0650: 1, H0657: 1, H0638: 1, S6026: 1, H0333: 1, H0253: 1, H0231: 1, H0150: 1, H0399: 1, T0023: 1, H0604: 1, H0213: 1, H0674: 1, H0038: 1, H0264: 1, H0059: 1, S0344: 1, L0646: 1, L0606: 1, L0661: 1, L0543: 1, L0789: 1, L0793: 1, S0216: 1, S0126: 1, S0330: 1, H0696: 1, L0777: 1, L0731: 1, S0434: 1 and L0592: 1.			73-89, 120-138

1336	HOUCY70	907030	1346	83 - 1009	2751	Asn-42 to Leu-62, Gln-96 to Lys-103, Asp-108 to Lys-117, Asn-122 to Leu-131, Met-144 to Glu-156, Glu-165 to Asp-172, Lys-191 to Glu-200, Tyr-211 to Ser-228, Gly-274 to Gly-281, Glu-302 to Gly-308.	AR089: 9, AR061: 8, AR039: 7, AR055: 7, AR060: 7, AR096: 6, AR104: 6, AR033: 5, AR052: 5, AR053: 4 H0618: 3, L0755: 3, S0436: 3, S0356: 2, H0253: 2, H0309: 2, H0123: 2, H0553: 2, L0369: 2, L0771: 2, L0774: 2, L0806: 2, L0666: 2, L0752: 2, L0601: 2, L0603: 2, S0040: 1, H0717: 1, S0180: 1, S0442: 1, S0132: 1, H0550: 1, H0333: 1, H0574: 1, H0545: 1, H0024: 1, H0015: 1, H0016: 1, H0266: 1, S0250: 1, H0213: 1, S0364: 1, S0366: 1, H0087: 1, H0379: 1, S0438: 1, S0440: 1, H0509: 1, L0769: 1, L0662: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L4669: 1, L0528: 1, L0663: 1, H0670: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, S0434: 1, S0276: 1, S0196: 1 and H0542: 1.	1q21.2-q22	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491	9-31, 249-265
1337	HWAEL33	907053	1347	389 - 901	2752	Ala-67 to Glu-72, Thr-91 to Ile-100.	AR033: 7, AR089: 6, AR052: 6, AR060: 4,			136-160, 105-121,

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							H0144: 1, L0438: 1, H0547: 1, H0521: 1, S0404: 1, S0406: 1, H0576: 1, S3014: 1, L0742: 1, L0758: 1, H0595: 1, S0436: 1, H0665: 1 and H0422: 1.					
1338	HNHCM07	907060	1348	174 - 821	2753	Lys-9 to Gly-17.	AR104: 13, AR096: 9, AR033: 7, AR060: 7, AR089: 6, AR055: 6, AR052: 4, AR039: 4, AR053: 4, AR061: 3 L0070: 2, H0618: 1, H0252: 1, S0428: 1 and S0053: 1.					98-114
1339	HELGY02	907105	1349	222 - 2831	2754	Arg-30 to Ile-42, Asn-103 to Ser-117, Asn-146 to Ser-151, Lys-165 to Asn-171, Asn-177 to Tyr-191, Arg-205 to Met-210, Pro-225 to Ser-236, Pro-254 to His-259, Asp-391 to Val-396, Lys-402 to Trp-408, Lys-422 to Asp-444, Pro-494 to Glu-502, Gly-517 to Lys-528.	AR104: 1, AR089: 1, AR061: 1, AR060: 0, AR052: 0, AR039: 0, AR096: 0, AR033: 0, AR053: 0, AR055: 0					1-23, 358-374
1340	HTAFC46	907218	1350	237 - 659	2755	Met-6 to Gln-19, Phe-22 to Asn-28,	AR061: 3, AR060: 2, AR053: 1, AR089: 1,					120-141, 76-92

					Pro-30 to His-62.	AR033: 1, AR096: 0, AR055: 0, AR104: 0 H0069: 2, H0264: 2, H0253: 1, H0412: 1, H0623: 1, H0521: 1 and H0423: 1.					
1341	HRADL67	907233	1351	142 - 975	2756	Val-47 to His-56, Glu-87 to Arg-94.	AR033: 28, AR089: 25, AR096: 25, AR104: 24, AR052: 24, AR055: 20, AR060: 20, AR061: 11 T0040: 1, H0013: 1, H0056: 1, H0435: 1, S0152: 1, H0555: 1 and L0759: 1.	AR039: 51, AR053: 42,			134-167, 184-206, 207-228, 240-267, 98-122, 63-85, 1-18, 158-174
1342	HDPQA54	907253	1352	93 - 1094	2757	Lys-53 to Ser-58, Ala-176 to Tyr-183, Lys-215 to Gln-220, Gly-261 to Gln-267.	AR096: 3, AR060: 3, AR089: 2, AR033: 2, AR053: 1, AR061: 1, AR055: 1, AR052: 1, AR104: 0, AR039: 0 H0521: 8, H0522: 4, H0580: 2, H0586: 2, S0036: 2, H0638: 1, H0250: 1, S0003: 1, H0111: 1, S0002: 1, H0529: 1, L0794: 1, L0803: 1, L0774: 1 and L0752: 1.	AR060: 241, AR033: 229, AR055: 211, AR061: 142, AR089: 103, AR053: 85, AR052: 62, AR104: 48,	3p21.3		183-213, 135-161, 226-250, 33-51, 107-123, 282-298, 59-75
1343	HCFCS40	907375	1353	4252 - 3083	2758	Pro-20 to Leu-30.				116806, 120120, 120120, 120120,	153-176, 205-229, 308-327, 34-50

						L0667: 1, L0372: 1, L0767: 1, L0803: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0784: 1, L0655: 1, L0657: 1, L0783: 1, L0647: 1, L5622: 1, L5623: 1, L0664: 1, H0697: 1, S0374: 1, H0724: 1, H0520: 1, H0435: 1, H0710: 1, H0518: 1, S0152: 1, L0751: 1, L0759: 1, S0031: 1, H0445: 1, S0434: 1, S0436: 1, S0192: 1, S0424: 1 and L0600: 1.		
1344	HBINS69	907522	1354	1113 - 1415	2759	Ala-32 to Gly-37.	AR104: 8, AR033: 7, AR053: 6, AR055: 5, AR096: 5, AR039: 4, AR052: 3, AR089: 3, AR061: 2, AR060: 2 H0617: 12, L0745: 6, H0052: 5, H0521: 4, L0758: 4, L0740: 3, H0265: 2, H0556: 2, S0358: 2, H0327: 2, H0178: 2, L0766: 2, H0682: 2, L0744: 2, L0748: 2, L0439: 2, L0746: 2, L0750: 2, H0149: 1, H0663: 1, S0356: 1, H0675: 1, H0333: 1, H0581: 1, H0083: 1, H0615: 1, L0143: 1,			74-93

							H0181: 1, S0036: 1, H0135: 1, H0087: 1, H0059: 1, H0494: 1, L0769: 1, L0372: 1, L0764: 1, L0648: 1, L0774: 1, L0783: 1, H0593: 1, H0660: 1, H0672: 1, S0028: 1, L0741: 1, L0751: 1, L0747: 1 and L0779: 1.			
1345	HKGAO47	907635	1355	214 - 1563	2760	Met-1 to Tyr-8, Glu-15 to Gly-24, Ser-64 to Glu-69, Cys-73 to Gly-79, Glu-104 to Asp-111, Asn-132 to Gln-139.	AR039: 10, AR096: 8, AR089: 7, AR052: 5, AR060: 5, AR104: 5, AR033: 5, AR053: 4, AR061: 2, AR055: 2			141-164, 358-377, 404-420, 422-438
1346	HMTBI19	907637	1356	1418 - 114	2761	Asp-2 to Asp-14, Ala-43 to Leu-52, Arg-111 to Thr-120, His-122 to Asn-130, Phe-168 to Ala-176, Thr-244 to Phe-249, Ser-261 to Asn-273, Glu-290 to Glu-296, Cys-303 to Lys-311, Tyr-334 to Val-339, Glu-358 to Ser-366, Ala-428 to Leu-435.	AR096: 2, AR052: 2, AR053: 2, AR089: 2, AR060: 1, AR033: 1, AR061: 1, AR104: 1, AR039: 0 L0439: 4, L0608: 3, L0667: 2, L0662: 2, L0766: 2, L0776: 2, H0518: 2, L0749: 2, L0777: 2, L0758: 2, L0362: 2, H0583: 1, S0418: 1, S0442: 1, S0358: 1, S0360: 1, H0575: 1, L0055: 1, H0032: 1, H0090: 1, H0634: 1, T0042: 1, S0426: 1, L0763: 1, L0770:	15q22.3	151670, 600374, 601780	216-232

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1347	HPMGN27	907728	1357	213 - 569	2762	Val-11 to Val-16, Leu-41 to Asp-57.	AR055: 4, AR060: 3, AR061: 3, AR033: 3, AR089: 3, AR096: 2, AR053: 2, AR052: 2, AR104: 1, AR039: 0 L0748: 4, L0794: 2, L0659: 2, L0517: 2, H0519: 2, L0758: 2, L0021: 1, H0318: 1, H0266: 1, H0031: 1, L0564: 1, L0772: 1, L0662: 1, L0768: 1, L0803: 1, H0144: 1, S0374: 1, H0435: 1, H0666: 1, H0710: 1, L0749: 1, L0779: 1 and S0436: 1.			99-116, 23-39
1348	HWLEP57	907757	1358	205 - 549	2763	Arg-75 to Lys-86.	AR060: 3, AR039: 3, AR033: 2, AR061: 1, AR053: 1, AR089: 1, AR055: 1, AR052: 1, AR104: 1, AR096: 0 L0373: 3, L0754: 3, L0005: 2, S0354: 2, H0331:			47-71, 6-22

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1349	HADGF57	907775	1359	104 - 1303	2764	AR096: 1, AR053: 1, AR033: 1, AR060: 1, AR089: 0, AR039: 0, AR052: 0, AR061: 0, AR055: 0, AR104: 0 S0410: 13, L0777: 12, L0748: 9, T0060: 6, H0553: 4, H0672: 3, L0439: 3, L0749: 3, S0436: 3, S0134: 2, H0661: 2, S0376: 2, S0278: 2, H0575: 2, S0003: 2, S0022: 2, H0674: 2, S0440: 2, L0646: 2, L0662: 2, L0809: 2, L0740: 2, L0754: 2, L0755: 2, L0758: 2, S0434: 2, H0506: 2, H0716: 1, T0049: 1, H0657: 1, H0656: 1, S0358: 1, S0468: 1, H0437: 1, S6022:				193-224, 6-31, 170-186, 145-161

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1350	HDTIC42	907776	1360	26 - 1282	2765	Ala-27 to Glu-33, Asp-57 to Glu-69, Asn-134 to Thr-143, Met-185 to Arg-192, Ile-221 to Leu-234, Thr-249 to Asp-260, Ser-270 to Asp-275, Pro-366 to Gly-376.	AR033: 18, AR061: 12, AR096: 12, AR104: 11, AR089: 11, AR060: 7, AR053: 5, AR052: 4, AR055: 3, AR039: 2 L0777: 20, L0744: 15, L0748: 14, H0591: 6, L0803: 6, L0752: 6, S0358: 5, L0774: 5, L0758: 5,				

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1351	HHEXO20	907816	1361	939 - 1535	2766		AR096: 4, AR061: 2, AR089: 2, AR053: 2, AR055: 2, AR052: 2, AR104: 2, AR060: 2, AR039: 1, AR033: 1 L0749: 4, L0805: 3, L0759: 3, L0766: 2, L0776: 2, L0659: 2, L0439: 2, L0758: 2, H0052: 1, H0050:			

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1352	HWLGN53	907823	1362	74 - 844	2767	Pro-35 to Asn-42, Asp-48 to Gln-54, Glu-62 to Pro-78, Pro-88 to Gln-94, Pro-97 to Pro-104, Pro-122 to His-127, Thr-130 to Ala-138.	AR089: 7, AR052: 6, AR096: 6, AR060: 5, AR033: 5, AR053: 4, AR061: 3, AR055: 3, AR104: 3, AR039: 2 L0438: 6, H0486: 5, S0212: 4, S0250: 4, L0564: 4, L0766: 4, L0663: 4, H0144: 4, S0374: 4, L0749: 4, L0591: 4, H0251: 3, S0214: 3, H0551: 3, L0771: 3, L0659: 3, L0565: 3, H0521: 3, S0404: 3, S3014: 3, S0027: 3, L0759: 3, H0445: 3, L0595: 3, H0543: 3, H0657: 2, S0376: 2, S0360: 2, H0586: 2, H0587: 2, S0280: 2, H0156: 2, S0474: 2, H0428: 2, H0090: 2, L0662: 2, L0378: 2, L0519: 2, L0793: 2, S0328: 2, L0748: 2, L0439: 2, L0740: 2, L0747: 2, S0436: 2, L0597: 2, L0362: 2, L0361: 2, S0192: 2, H0542:				156-173, 197-213, 17-33, 173-189

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1353	HMIAH65	907832	1363	21 - 1091	2768	Leu-20 to Gly-41, Met-53 to Asp-58, Asn-101 to Thr-111.	AR055: 8, AR033: 7, AR060: 6, AR052: 6, AR061: 6, AR053: 6, AR104: 5, AR096: 4, AR089: 4, AR039: 3 L0439: 5, S6028: 3, S0007: 2, S0222: 2, L0740: 2, L0756: 2, H0657: 1, H0663: 1, H0393: 1, S0010: 1, H0581: 1, H0553: 1, H0551: 1, L0789: 1, H0555: 1, L0759: 1 and S0308: 1.			164-180
1354	HWAAX38	907899	1364	12 - 476	2769	Ala-18 to Gln-24.	AR039: 13, AR053: 8, AR096: 6, AR104: 6, AR033: 5, AR089: 5, AR052: 4, AR060: 4, AR055: 4, AR061: 2 H0423: 10, H0445: 7, H0556: 6, L0766: 6, S0134: 5, H0656: 5, H0486: 5, H0436: 5, H0657: 4, H0271:				130-149, 37-53

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1355	HTJNG15	908309	1365	623 - 1495	2770		AR055: 2, AR033: 1, AR039: 1, AR096: 1, AR061: 1, AR089: 1, AR053: 1, AR104: 1, AR060: 1, AR052: 0 L0745: 16, L0743: 4, L0746: 4, L0779: 2, H0556: 1, S0045: 1, H0253: 1, H0172: 1, H0488: 1, L0640: 1, L0806: 1, H0522: 1, L0754: 1, L0750: 1, L0604: 1, L0601: 1 and H0543: 1.				117-134, 144-160
1356	HSDJA72	908338	1366	1637 - 2539	2771	Gln-4 to Asn-20.	AR053: 6, AR096: 5, AR052: 5, AR089: 5, AR060: 3, AR104: 3, AR033: 3, AR055: 2, AR039: 2, AR061: 1 S0028: 13, S0126: 5,				170-201, 123-148, 101-123, 34-57, 209-229, 71-87,

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1357	HMCHF75	908383	1367	158 - 1060	2772	Thr-70 to Trp-83, Asn-85 to Gly-91, Glu-182 to Leu-188, Asp-191 to Gly-196.	AR096: 17, AR089: 13, AR053: 12, AR060: 12, AR052: 11, AR055: 9, AR033: 9, AR039: 6, AR104: 5, AR061: 4 H0521: 7, S0344: 4, S0002: 3, S0142: 2, S6014: 1, H0431: 1, S0051: 1, S0015: 1, S0426: 1, H0701: 1, H0539: 1 and H0522: 1.			198-227, 1-21, 238-254
1358	HDTAZ43	908412	1368	217 - 1233	2773		AR096: 5, AR089: 3, AR053: 2, AR104: 2, AR039: 2, AR033: 2, AR061: 2, AR060: 1, AR055: 1, AR052: 1 L0803: 6, L0809: 4,			123-142, 272-288, 204-220, 225-241, 94-110

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1359	HAAAN55	908451	1369	148 - 1542	2774	Met-1 to Glu-8, Ile-13 to Arg-19, Ser-29 to Ser-38, Ser-53 to Phe-67, Thr-80 to Met-86, Arg-101 to Arg-113, Ser-120 to Arg-125.	AR033: 4, AR096: 3, AR060: 3, AR053: 3, AR089: 2, AR052: 2, AR055: 1, AR061: 1, AR104: 0, AR039: 0 H0646: 1 and L0770: 1.				
1360	HBODI05	908697	1370	66 - 1883	2775	Met-1 to Leu-7, Asp-67 to Lys-72, Arg-205 to Asn-214, Lys-230 to Lys-238,	AR089: 4, AR096: 2, AR052: 2, AR033: 2, AR104: 1, AR060: 1, AR055: 1, AR061: 1,				536-552, 135-151, 105-121, 299-315,

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1361	HAJAH16	908763	1371	879 - 2036	2776	Leu-9 to Leu-18, Pro-36 to Asp-48, Ala-117 to Gln-133, Leu-137 to Ala-142, Arg-159 to Asp-164, Arg-170 to Ser-177, Gly-205 to Thr-224, Ser-253 to Asp-262, Gly-303 to Gly-313, Val-320 to Ile-335, Pro-353 to Phe-367, Asp-376 to Asp-386.	AR089: 8, AR061: 6, AR060: 3, AR033: 3, AR096: 1, AR055: 0, AR052: 0, AR039: 0, AR053: 0 H0561: 1, H0520: 1 and L0748: 1.			334-350, 141-157
1362	HOUDS09	908843	1372	410 -	2777	Asn-21 to Tyr-28,	AR104: 120, AR033: 112,						103-132

				1126		Leu-30 to Glu-53.	AR061: 107, AR060: 94, AR055: 86, AR096: 79, AR039: 74, AR089: 61, AR053: 52, AR052: 46 L0599: 12, L0766: 11, L0754: 8, L0803: 2, L0809: 2, S0152: 2, H0521: 2, L0743: 2, L0731: 2, H0624: 1, H0171: 1, S0040: 1, H0650: 1, H0656: 1, S0298: 1, S0282: 1, H0580: 1, S0046: 1, S0222: 1, H0431: 1, H0587: 1, H0486: 1, S0010: 1, H0318: 1, H0581: 1, H0309: 1, H0416: 1, T0006: 1, H0063: 1, T0041: 1, H0560: 1, S0422: 1, S0002: 1, L0800: 1, L0641: 1, L0363: 1, L5574: 1, L0523: 1, L0659: 1, H0547: 1, H0539: 1, H0710: 1, L0758: 1, S0242: 1, H0543: 1 and H0423: 1.			
1363	HLWAF59	908860	1373	36 - 1088	2778	Thr-20 to Tyr-28, Lys-51 to Lys-65, Glu-69 to Leu-86, Lys-106 to Gln-130, Gln-136 to Ser-141, Glu-160 to Glu-173, Leu-177 to Ser-186.	AR052: 9, AR053: 6, AR096: 4, AR033: 4, AR089: 3, AR060: 3, AR039: 3, AR104: 2, AR055: 1, AR061: 1 L0657: 2, L0362: 2, S0276: 2, H0686: 1, H0685:			332-348

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1364	HCFNN18	908915	1374	69 - 557	2779	Met-1 to Asn-13, Asn-38 to Lys-47, Ile-86 to Cys-101.	AR053: 4, AR096: 4, AR033: 3, AR089: 3, AR052: 2, AR060: 2, AR039: 1, AR104: 1, AR055: 1, AR061: 1					66-82
1365	HMSCR89	909056	1375	194 - 1831	2780	Asp-142 to Arg-149, Leu-181 to Glu-190, Gln-203 to Leu-215, Arg-217 to Lys-222, Ile-226 to Val-233, Glu-236 to Gly-244, Lys-254 to Val-262, Leu-287 to Asp-296, Ser-324 to Glu-331, Phe-336 to Asn-341, Lys-348 to Arg-353, Ser-357 to Gln-372, Ser-394 to Ala-409, Leu-434 to Glu-447,	H0423: 1 AR053: 13, AR096: 12, AR052: 10, AR089: 9, AR060: 8, AR033: 7, AR055: 7, AR104: 7, AR039: 5, AR061: 4 L0766: 13, S0474: 6, H0305: 5, L0439: 3, L0731: 3, H0052: 2, S0002: 2, H0529: 2, L0764: 2, L0653: 2, L0666: 2, S0328: 2, H0521: 2, L0751: 2, L0750: 2, L0599: 2, L0604: 2, H0650: 1, S0116: 1, H0341: 1, H0589: 1, S0418: 1,	15q26	180090, 600318	96-116

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1366	HDPCW53	909101	1376	532 - 1158	2781	AR039: 36, AR096: 17, AR053: 15, AR052: 15, AR033: 15, AR104: 14, AR089: 12, AR055: 11, AR060: 10, AR061: 6 L0759: 11, L0748: 7, L0439: 7, L0749: 7, L0731: 4, H0553: 3, L0805: 3, L0809: 3, L0789: 3, L0750: 3, L0756: 3, L0777: 3,				

						H0624: 2, L0471: 2, H0266: 2, H0494: 2, L0372: 2, L0803: 2, L0438: 2, H0521: 2, L0740: 2, H0423: 2, H0170: 1, H0171: 1, S0134: 1, S0360: 1, S0222: 1, H0441: 1, H0333: 1, H0013: 1, H0244: 1, H0251: 1, T0110: 1, H0046: 1, H0014: 1, H0032: 1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, S0422: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1.			75-99, 25-42, 59-75
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1367	HTOGI77	909159	1377	59 - 526	2782				

					H0214: 1, S0404: 1, L0744: 1, L0740: 1, L0731: 1, L0759: 1, L0604: 1, L0595: 1, L0362: 1, H0653: 1, H0665: 1 and H0422: 1.				
1368	HUCOF58	909344	1378	2090 - 1119	2783	Pro-77 to Arg-84, Tyr-109 to Thr-114.	AR060: 2, AR033: 1, AR089: 1, AR053: 1, AR061: 1, AR096: 1, AR039: 1, AR055: 0, AR052: 0, AR104: 0 H0677: 8, L0748: 7, H0556: 6, L0769: 6, L0747: 6, H0599: 5, H0521: 5, H0135: 4, L0770: 4, L0775: 4, L0439: 4, L0759: 4, S0434: 4, S0222: 3, H0620: 3, H0617: 3, H0412: 3, L0659: 3, L0438: 3, H0547: 3, S0406: 3, L0758: 3, H0542: 3, H0265: 2, H0664: 2, S0360: 2, S0132: 2, L0471: 2, H0012: 2, S0388: 2, H0266: 2, H0087: 2, H0646: 2, L0662: 2, L0766: 2, L0352: 2, S0404: 2, L0744: 2, L0779: 2, L0757: 2, S0436: 2, L0596: 2, H0543: 2, H0423: 2, S0040: 1, H0638: 1, S0420: 1, S0354: 1, S0358: 1, S0376:				275-303, 177-205, 298-320, 52-71, 141-160, 252-270, 214-230, 20-36, 116-132, 89-105

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1369	HAPBL13	909390	1379	1663 -	2784		AR055: 15, AR061: 11,					

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						1, H0264: 1, H0056: 1, H0623: 1, H0633: 1, S0002: 1, H0529: 1, L0762: 1, L5575: 1, L0772: 1, L0646: 1, L0771: 1, L0773: 1, L0767: 1, L0768: 1, L0803: 1, L0805: 1, L0653: 1, L4501: 1, L0666: 1, H0689: 1, H0690: 1, H0682: 1, H0670: 1, H0522: 1, S0044: 1, H0436: 1, S0027: 1, L0754: 1, L0749: 1, L0753: 1, L0731: 1, S0436: 1, H0653: 1, S0192: 1, H0542: 1, H0543: 1 and H0423: 1.			
						AR089: 7, AR033: 5, AR061: 5, AR060: 2, AR096: 1, AR053: 1, AR104: 0, AR052: 0, AR055: 0 L0751: 5, S0358: 4, L0769: 3, L0659: 3, S0356: 2, S0354: 2, S0376: 2, H0253: 2, H0551: 2, L0771: 2, L0809: 2, L0665: 2, H0650: 1, H0483: 1, H0255: 1, H0402: 1, S0360: 1, L0717: 1, H0550: 1, S6014: 1, H0592: 1, H0486: 1, H0618: 1, S0049: 1, H0178:			210-226, 262-278
1370	HHEEN22	909508	1380	1628 - 450	2785	Ser-4 to Ser-9, Pro-45 to Ile-51, Gly-76 to His-81, Val-102 to Asn-110, Asp-123 to Pro-140, Asn-196 to Leu-208, Asp-227 to Gly-232, Ala-343 to Thr-351, Pro-359 to Ser-378, Pro-384 to Ser-393.				

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1371	H2CBH75	909587	1381	2304 - 1204	2786	Glu-122 to Asn-129, Glu-143 to Asn-148, Lys-150 to Ala-162, Ala-202 to Arg-208, Phe-252 to Thr-260, Pro-347 to His-363.	AR052: 20, AR033: 13, AR055: 12, AR053: 12, AR089: 11, AR060: 9, AR104: 7, AR096: 7, AR061: 7, AR039: 5 L0766: 17, H0694: 14, L0758: 11, L0740: 6, L0591: 6, L0769: 5, L0773: 5, L0748: 5, L0754: 5, L0777: 5, H0575: 4, L0772: 4, L0768: 4, L0438: 4, L0747: 4, L0750: 4, L0601: 4, H0656: 3, H0013: 3, H0050: 3, H0622: 3, H0040: 3, H0529: 3, L0770: 3, L0774: 3, L0664: 3, H0144: 3, H0547: 3, H0521: 3, H0696: 3, L0749: 3, L0752: 3, L0757: 3, L0759: 3, H0556: 2, S0356: 2, H0486: 2, T0110: 2, H0572: 2,				18-51, 167-202, 214-245, 66-96, 304-324, 263-280

						L0764: 1, L0648: 1, L0662: 1, L0794: 1, L0649: 1, L0561: 1, L0775: 1, L0376: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0517: 1, L0783: 1, L0647: 1, L0666: 1, L0663: 1, H0691: 1, H0519: 1, H0670: 1, H0660: 1, H0648: 1, S0406: 1, H0436: 1, H0576: 1, S0027: 1, S0206: 1, L0756: 1, L0731: 1, S0260: 1, H0444: 1, L0596: 1, L0588: 1, L0605: 1, L0608: 1, L0594: 1, S0026: 1, H0665: 1, H0667: 1, L0096: 1 and S0424: 1.			
1372	HTLHU05	909665	1382	174 - 1409	2787	Thr-30 to Gly-36, Asp-44 to Asp-51, Pro-145 to Lys-151, Ala-161 to Ser-168.	AR055: 4, AR061: 3, AR096: 3, AR052: 3, AR089: 3, AR060: 2, AR033: 2, AR053: 2, AR039: 1, AR104: 0 H0618: 64, H0253: 52, L0758: 6, L0779: 2, H0392: 1, H0038: 1, L0761: 1, L0803: 1, L0806: 1, L0807: 1 and L0697: 1.			194-210, 71-87
1373	HDPPG85	909673	1383	665 - 1102	2788	Glu-16 to Arg-23, Phe-43 to Trp-50,	AR033: 2, AR089: 1, AR096: 1, AR053: 1,				114-131, 67-83

						Val-59 to Asp-66.				
					2789					
				51 - 572						
			1384							
		909678								
	HWMIB81									
1374										83-100

AR060: 1, AR055: 1,
AR061: 1, AR039: 0,
AR052: 0, AR104: 0
H0585: 6, H0255: 6,
H0457: 3, H0539: 3, H0657: 2, L0622: 2, H0634: 2,
H0063: 2, L0789: 2, H0436: 2, S0218: 1, H0650: 1,
H0254: 1, H0592: 1, H0486: 1, H0069: 1, H0575: 1,
H0327: 1, H0083: 1, H0179: 1, H0271: 1, L0055: 1,
H0616: 1, T0041: 1, H0646: 1, H0695: 1, L0369: 1,
L0769: 1, L0794: 1, L0766: 1, L0774: 1, L0809: 1,
H0522: 1, L0779: 1, L0731: 1, H0136: 1, S0276: 1,
H0543: 1, H0423: 1 and H0422: 1.

AR096: 2, AR053: 2,
AR039: 1, AR060: 1,
AR089: 1, AR055: 1,
AR061: 1, AR104: 1,
AR052: 1, AR033: 1
L0748: 2, H0171: 1,
S0134: 1, S0354: 1, S0358: 1, H0014: 1, H0083: 1,
H0510: 1, L0764: 1, L0803: 1, L0789: 1, H0593: 1,

						H0659: 1, H0539: 1, H0555: 1, L0751: 1, L0758: 1, L0759: 1 and L0595: 1.				
1375	HSYDI55	909692	1385	105 - 1199	2790	Thr-26 to Glu-37, Lys-82 to Asn-92, Gly-122 to Ile-128, Glu-152 to Thr-157, Ala-159 to Arg-169, Lys-176 to Lys-181, Lys-183 to Arg-196, Ser-200 to Glu-207, Pro-256 to Ser-267, Ser-305 to Ala-310, Glu-348 to Gly-354.	AR052: 16, AR053: 9, AR033: 5, AR089: 4, AR096: 3, AR060: 3, AR104: 2, AR055: 2, AR039: 1, AR061: 1 H0651: 11, L0794: 8, H0038: 5, L0805: 4, L0758: 4, S0358: 3, S0476: 3, L0766: 3, L0803: 3, L0665: 3, H0144: 3, H0521: 3, L0748: 3, L0740: 3, L0756: 3, H0222: 2, S0420: 2, S0360: 2, H0551: 2, H0412: 2, S0440: 2, L0804: 2, L0789: 2, L0666: 2, L0747: 2, S0436: 2, L0599: 2, H0542: 2, H0223: 1, H0159: 1, H0717: 1, H0716: 1, S0282: 1, H0580: 1, S0046: 1, H0411: 1, H0486: 1, H0013: 1, H0596: 1, L0738: 1, H0544: 1, H0046: 1, L0471: 1, H0014: 1, H0083: 1, S0003: 1, H0553: 1, L0055: 1, H0124: 1, H0591: 1, H0616: 1, H0059: 1, H0494: 1, S0294: 1, H0529:			323-339

						1, L0770: 1, L0769: 1, L0800: 1, L0644: 1, L0764: 1, L0771: 1, L0662: 1, L0364: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0382: 1, S0148: 1, H0693: 1, S0328: 1, S0152: 1, H0436: 1, H0631: 1, S3014: 1, S0027: 1, L0439: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0757: 1, H0444: 1, H0445: 1, S0026: 1, S0242: 1, S0194: 1 and H0423: 1.				
1376	HHFJU87	909720	1386	110 - 1225	2791	Ser-4 to Ser-28, Leu-37 to Glu-45, Pro-86 to Leu-94, Glu-150 to Leu-157, Leu-168 to Trp-177, Ser-242 to Ala-249, Glu-340 to Asp-348, Phe-365 to Val-371.	AR039: 4, AR053: 2, AR033: 1, AR089: 1, AR061: 0, AR060: 0, AR096: 0, AR055: 0, AR104: 0 L0740: 10, L0747: 9, L0731: 9, S0126: 7, S0360: 5, H0623: 5, L0809: 5, L0750: 5, L0757: 4, L0471: 3, L0662: 3, L0777: 3, L0752: 3, L0759: 3, S0376: 2, H0619: 2, H0261: 2, L0021: 2, H0544: 2, H0644: 2, H0551: 2, H0413: 2, H0056: 2, H0100: 2, L0762: 2, L0769: 2, L0764: 2,				292-309, 180-197, 99-115

						L0649: 2, L0659: 2, L0666: 2, L0439: 2, L0751: 2, L0749: 2, L0755: 2, L0758: 2, L0596: 2, S0242: 2, T0049: 1, S0418: 1, S0420: 1, S0356: 1, H0340: 1, S0046: 1, L0717: 1, H0369: 1, H0370: 1, H0587: 1, H0599: 1, H0052: 1, H0596: 1, T0115: 1, H0123: 1, H0051: 1, H0510: 1, H0266: 1, H0286: 1, H0328: 1, H0428: 1, H0628: 1, H0673: 1, H0169: 1, L0456: 1, T0069: 1, S0014: 1, L0763: 1, L0770: 1, L0646: 1, L0800: 1, L0794: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0654: 1, L0657: 1, L0783: 1, L0792: 1, L0663: 1, S0374: 1, H0593: 1, H0435: 1, H0658: 1, H0672: 1, S0380: 1, S0146: 1, S3014: 1, S0206: 1, L0743: 1, L0744: 1, L0779: 1, H0595: 1, L0591: 1, H0653: 1, S0194: 1, S0276: 1 and H0352: 1.			
					Thr-2 to Arg-33, Ser-80 to Lys-85.	AR096: 2, AR052: 2, AR089: 2, AR039: 1,			223-242
1377	HDHIB39	909774	1387	25 - 1038	2792				

						AR053: 1, AR060: 1, AR061: 1, AR033: 1, AR055: 1, AR104: 1 H0571: 1, H0038: 1, S0052: 1 and S0216: 1.				
1378	HTXSR92	909802	1388	272 - 1360	2793	Glu-24 to Pro-34, Leu-45 to Glu-51.	AR039: 2, AR060: 1, AR089: 1, AR061: 0, AR052: 0, AR096: 0, AR033: 0, AR055: 0, AR104: 0, AR053: 0 H0265: 1, H0556: 1 and H0083: 1.			91-115, 189-205, 58-74
1379	HWEAD65	909868	1389	282 - 605	2794		AR052: 3, AR055: 3, AR033: 3, AR104: 2, AR096: 2, AR053: 2, AR089: 2, AR061: 1, AR060: 1, AR039: 0 T0049: 2, S0046: 2, S0045: 1, H0261: 1, H0611: 1, H0601: 1, S0250: 1, L0666: 1, H0672: 1, H0522: 1, L0780: 1 and S0276: 1.			64-82
1380	HUUAR12	909906	1390	124 - 717	2795	Glu-37 to Trp-42, Arg-64 to Lys-69.	AR033: 2, AR053: 2, AR096: 2, AR089: 2, AR052: 1, AR104: 1, AR060: 1, AR055: 1, AR061: 1, AR039: 0 L0809: 9, L0775: 3, L0758: 3, S0376: 2, L0439:	2		176-192

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1381	HEMBT61	909941	1391	31 - 351	2796	Asp-83 to Asp-90.	AR104: 10, AR055: 10, AR033: 10, AR060: 6, AR089: 5, AR052: 5, AR039: 5, AR061: 5, AR053: 5, AR096: 4 L0547: 2, S0046: 1, L0471: 1, L0772: 1, L0529: 1 and L0780: 1.			63-81
1382	HNTCE17	909957	1392	14 - 799	2797		AR104: 2, AR055: 2, AR052: 2, AR039: 1, AR033: 1, AR053: 1, AR089: 1, AR096: 1, AR060: 1, AR061: 1 H0618: 5, L0747: 5, L0766: 4, H0253: 3, L0794: 3, L0439: 3, S0420: 2, H0587: 2, H0333: 2, L0769: 2, L0764: 2, L0526: 2, L0438: 2, H0520: 2, H0658: 2, H0539: 2, L0731: 2,			74-91, 232-248, 16-32

					L0758: 2, L0604: 2, H0265: 1, H0556: 1, H0583: 1, H0650: 1, S0212: 1, S0356: 1, H0619: 1, H0351: 1, H0441: 1, L0622: 1, L0623: 1, H0635: 1, H0036: 1, H0251: 1, H0309: 1, L0738: 1, H0051: 1, S6028: 1, L0055: 1, S0366: 1, H0038: 1, H0040: 1, H0634: 1, H0623: 1, H0561: 1, H0130: 1, H0633: 1, L0763: 1, L0772: 1, L0641: 1, L0662: 1, L0363: 1, L0649: 1, L0803: 1, L0776: 1, L0659: 1, L0635: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, L0611: 1, L0779: 1, S0260: 1 and S0436: 1.				50-66, 125-141, 106-122
1383	HFAV24	910038	1393	40 - 552	2798	Met-1 to Glu-6, Glu-12 to Gly-17, Arg-23 to Gly-48.	AR055: 13, AR061: 8, AR033: 7, AR060: 7, AR053: 6, AR052: 6, AR089: 5, AR096: 4, AR039: 2, AR104: 2 L0748: 12, L0740: 11, L0439: 9, H0052: 8, L0666: 6, H0616: 5, L0776: 5, L0742: 5, L0744: 5, L0750: 5, L0601: 5, S0444: 4,	22q13.31	250100, 250800, 250800		

					S0051: 1, T0010: 1, H0510: 1, S6028: 1, H0188: 1, H0687: 1, H0252: 1, H0644: 1, S0036: 1, H0163: 1, H0090: 1, H0551: 1, H0264: 1, H0488: 1, H0056: 1, H0100: 1, L0564: 1, T0041: 1, H0649: 1, H0652: 1, S0344: 1, S0002: 1, L0763: 1, L0761: 1, L0372: 1, L0642: 1, L0643: 1, L0764: 1, L0768: 1, L0766: 1, L0381: 1, L0775: 1, L0526: 1, L0782: 1, L0663: 1, L0665: 1, H0703: 1, H0693: 1, H0520: 1, H0435: 1, L0741: 1, L0751: 1, L0757: 1, S0260: 1, H0445: 1, L0584: 1, L0608: 1, L0604: 1, S0412: 1 and H0506: 1.			
1384	HEOPL36	910057	1394	407 - 769	2799	Arg-25 to Gly-50, Ser-86 to Arg-91, Ala-95 to Thr-101.	AR053: 20, AR052: 19, AR039: 19, AR096: 19, AR089: 18, AR033: 17, AR060: 15, AR104: 13, AR055: 8, AR061: 6 L0740: 11, L0439: 9, L0748: 8, H0616: 5, L0666: 5, L0601: 5, S0444: 4, L0776: 4, L0659: 4, L0744: 4, L0747: 4, L0749: 4,	22q13.31	250100, 250800, 250800	52-68

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							H0703: 1, H0520: 1, H0435: 1, S0044: 1, L0751: 1, L0757: 1, L0759: 1, H0445: 1, L0584: 1, L0608: 1 and H0506: 1.			
1385	HFKJM30	910061	1395	85 - 678	2800	Gly-19 to Ser-25, Ser-55 to Arg-61, Gly-69 to Trp-74, Phe-166 to Thr-171.	AR033: 5, AR060: 2, AR089: 2, AR039: 2, AR061: 1, AR096: 1, AR104: 1, AR055: 1, AR053: 0 L0744: 6, H0013: 4, L0483: 4, S0126: 4, L0777: 4, H0620: 3, L0005: 2, S0022: 2, H0622: 2, L0774: 2, L0748: 2, L0779: 2, L0362: 2, H0624: 1, H0170: 1, S0040: 1, S0212: 1, S0358: 1, S0376: 1, S0360: 1, H0486: 1, H0069: 1, H0156: 1, H0012: 1, S0003: 1, H0038: 1, H0616: 1, H0413: 1, T0042: 1, L0598: 1, L0646: 1, L0740: 1, L0756: 1, L0758: 1, L0599: 1, L0608: 1, S0011: 1, S0026: 1, S0276: 1 and L0465: 1.			78-97, 2-18
1386	HTEPE35	910083	1396	226 - 762	2801	Leu-35 to Asn-43, Ser-70 to Asp-76,	AR061: 3, AR055: 3, AR096: 3, AR060: 2,			110-126, 50-66

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1387	HIBEG14	910301	1397	49 - 966	2802	AR060: 2, AR053: 2, AR089: 2, AR039: 1, AR033: 1, AR096: 1, AR061: 1, AR104: 1, AR055: 0, AR052: 0 L0794: 8, L0741: 7, L0731: 5, H0556: 4, L0805: 4, L0439: 4, L0749: 4, L0758: 4, S0007: 3, H0351: 3, H0253: 3, H0457: 3, L0456: 3, L0803: 3, L0665: 3, L0777: 3, L0759: 3, H0581: 2, L0769: 2, L0800: 2, L0776: 2, L0659: 2, L0789: 2, L0438: 2, H0547: 2, S0126: 2, L0743: 2, L0744: 2, L0748: 2, L0593: 2, H0543: 2, H0170: 1, H0125: 1, S0354: 1, S0045: 1, S0046: 1, S0132: 1, H0619: 1, H0550: 1, S0222: 1, H0370: 1, H0587: 1, H0497: 1, T0039: 1, H0706: 1, H0618: 1, H0052: 1, H0572: 1, H0050: 1, H0024:	10q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082	132-149, 35-51

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1388	HIBCH43	910448	1398	2010 - 946	2803	Glu-21 to Gln-28, Leu-40 to Ile-47, Ile-56 to Leu-61, Pro-85 to Leu-93, Ser-212 to Met-221, Thr-236 to Asn-241.	AR053: 4, AR052: 2, AR089: 2, AR033: 2, AR096: 1, AR055: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 0 H0009: 69, H0144: 63, S0007: 60, H0265: 59, H0556: 56, H0013: 55, H0178: 55, L0748: 55, T0010: 48, H0052: 41, S0010: 38, H0100: 38, L0595: 35, H0124: 32, S0027: 30, H0266: 29,				

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1389	HELDY60	910451	1399		2804				

1390	HDPRX11	910465	1400	222 - 1208	2805	L0750: 1 and L0731: 1.			230-260, 17-43, 88-118, 56-85
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1391	HDPBN81	910569	1401	1155 - 2687	2806	Asp-35 to Asp-41, Ser-72 to Glu-77, Lys-110 to His-115, Pro-160 to Gln-165, Arg-309 to Ala-318, Met-325 to Ala-335, Glu-419 to Ala-431, Thr-439 to Trp-449, Pro-489 to Tyr-502.	AR096: 3, AR052: 2, AR089: 2, AR033: 2, AR061: 2, AR104: 2, AR055: 1, AR060: 1, AR053: 1, AR039: 0 L0740: 12, L0766: 6, L0742: 6, H0522: 5, S0278: 4, L0776: 4, H0521: 4, L0779: 4, L0777: 4, H0641: 3, S0142: 3, S0002: 3, L0803: 3, L0805: 3, H0543: 3, H0575: 2, H0264: 2, S0144: 2, S0426: 2, H0529: 2, L0761: 2, L0655: 2, L0807: 2, L0747: 2, L0749: 2, L0752: 2, L0759: 2, L0601: 2, H0265: 1, H0556: 1, S0040: 1, T0049: 1, H0638: 1, H0550: 1, H0586: 1, H0559: 1, H0013: 1,				

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1392	HSLJF08	910686	1402	244-813	2807	Gln-34 to Phe-39, Pro-41 to Ala-49.	AR039: 24, AR053: 21, AR052: 18, AR055: 17, AR033: 14, AR104: 13, AR089: 13, AR096: 13, AR060: 11, AR061: 9 L0748: 14, H0620: 11, L0740: 10, L0747: 10, L0766: 9, L0770: 7, L0662: 7, L0659: 7, L0809: 7, L0803: 5, H0543: 5, H0050: 4, H0023: 4, H0135: 4, L0666: 4, L0664: 4, H0521: 4, S0436: 4, H0265: 3, H0295: 3, H0657: 3, H0341: 3, H0733: 3, H0550: 3, H0370: 3, H0575: 3, H0083: 3, H0494: 3, L0769: 3, L0794: 3, L0655: 3, L0783:				9-34, 129-178, 155-178, 89-107

1393	HAGAE60	910706	1403	120 - 551	2808	Ser-64 to Ser-73.	AR055: 7, AR033: 4, AR060: 4, AR061: 3, AR052: 3, AR104: 3, AR089: 3, AR096: 2, AR053: 2, AR039: 0 S0010: 4, L0471: 2, L0748: 2, L0759: 2, S0031: 2, H0369: 1, H0263: 1, N0006: 1, H0373: 1, H0356: 1, H0644: 1, S0428: 1 and L0438: 1.			106-129
1394	HTJNI49	910714	1404	78 - 1472	2809	Glu-46 to Glu-59, Cys-81 to Asn-89, Asn-96 to Asn-103, Pro-166 to Gly-171, Glu-269 to Cys-275, Thr-285 to Asn-292, Glu-312 to Cys-324, Asp-326 to Asn-332.	AR104: 16, AR033: 15, AR039: 6, AR096: 6, AR053: 6, AR089: 5, AR060: 4, AR052: 3, AR055: 3, AR061: 3 L0439: 15, L0748: 12, L0438: 10, H0457: 8, S0126: 8, L0770: 7, S0358: 6, L0769: 6, H0547: 6, L0759: 6, L0794: 5, L0803: 5, H0710: 5, L0744: 5, S0045: 4, S0046: 4, H0013: 4, H0635: 4, H0156: 4, H0052: 4, H0623: 4, L0667: 4, L0766: 4, L0805: 4, L0659: 4, H0648: 4, L0601: 4, S0356: 3, S0222: 3, H0599: 3, H0510: 3, H0591: 3, S0344: 3, L0764: 3,			362-396, 19-36

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1395	HUFBA64	910722	1405	554 - 1144	2810					

						Ser-59 to Gly-70, Ala-72 to Gln-81, Lys-87 to Arg-101.	AR089: 1, AR033: 0, AR052: 0 L0803: 7, S0358: 3, L0774: 3, L0748: 2, S0354: 1, H0489: 1, H0549: 1, H0036: 1, H0590: 1, H0597: 1, H0510: 1, H0509: 1, L0771: 1, L0768: 1 and H0506: 1.			
1396	HMTAX31	910866	1406	115 - 666	2811	Lys-18 to Lys-30, Asp-57 to Thr-64, Arg-133 to Lys-140, Leu-150 to Ala-165.	AR096: 7, AR053: 6, AR089: 6, AR039: 6, AR052: 5, AR060: 5, AR033: 4, AR104: 3, AR061: 1, AR055: 1 L0777: 4, S0358: 2, S0126: 2, H0522: 2, S0116: 1, H0638: 1, H0443: 1, H0014: 1, H0379: 1, S0016: 1, S0374: 1, H0518: 1, H0521: 1 and L0740: 1.			83-100, 167-183
1397	HSSAL39	910902	1407	97 - 465	2812		AR053: 128, AR055: 124, AR052: 116, AR089: 103, AR060: 100, AR033: 76, AR061: 75, AR096: 64, AR104: 40, AR039: 39 H0041: 1 and H0135: 1.			90-110
1398	HE8QR01	911011	1408	45 - 599	2813	Tyr-80 to Ser-90, Gly-173 to Ser-185.	AR039: 46, AR053: 34, AR052: 29, AR033: 26, AR055: 25, AR089: 23,			108-124, 11-28

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1399	HLDQK77	911038	1409	1941 - 2330	2814	Cys-24 to Gly-29, Gly-56 to Pro-68, Arg-115 to Glu-120, Gly-125 to Gly-130.	AR053: 2, AR096: 2, AR052: 2, AR039: 2, AR033: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 1 L0758: 12, L0662: 11, H0251: 9, L0731: 9, S0360: 5, H0013: 5, L0659: 5, L0747: 5, H0252: 4, H0328: 4, L0666: 4, L0439: 4, S0436: 4, H0135: 3, L0764: 3, L0783: 3, L0749: 3, S0358: 2, L0776: 2, L0793: 2, L0663: 2, H0651: 2, L0744: 2, L0754: 2, H0713: 1, H0716: 1, H0675: 1, H0329: 1, H0619: 1, L0717: 1, H0369: 1, H0550: 1, H0333: 1, H0632: 1, H0486: 1, T0060: 1, H0042: 1, H0575: 1, H0618: 1, H0150: 1, H0123: 1, H0050: 1, H0105: 1, T0003: 1, H0024:				32-57, 83-99

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1401	HMSHP51	911153	1411	101 - 1447	2816	Ser-2 to Ala-10, His-108 to Lys-114, Gln-190 to Leu-199, Tyr-276 to Gln-282, Glu-308 to Lys-313, Lys-370 to Arg-376, Gln-383 to His-388, Gly-408 to Trp-417, Ser-420 to Thr-426.	AR089: 16, AR104: 15, AR096: 15, AR033: 14, AR053: 13, AR055: 11, AR060: 10, AR052: 10, AR061: 8, AR039: 5 L0758: 6, H0618: 4, L0517: 4, L0747: 4, H0038: 3, L0770: 3, L0769: 3, L0439: 3, L0749: 3, H0662: 2, H0333: 2, H0674: 2, S0002: 2, L0794: 2, L0766: 2, L0649: 2, H0144: 2, S0328: 2, S0406: 2, L0759: 2, H0556: 1, S0040: 1, H0657: 1, H0255: 1, S0360: 1, H0208: 1, H0411: 1, S0278: 1, H0549: 1, H0370: 1, L0021: 1, S0010: 1, H0052: 1, H0194: 1, H0150: 1, H0009: 1, H0178: 1, H0188: 1, H0644: 1, L0455: 1, S0036: 1, H0090: 1, H0616: 1, H0063: 1, L0351: 1, H0641: 1, S0344: 1,			125-141, 251-267

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1404	HUSIC81	886711	1414	71 - 724	2819	Pro-78 to Lys-83.		AR039: 35, AR055: 17, AR052: 16, AR053: 16, AR089: 15, AR096: 15, AR033: 13, AR104: 11, AR060: 10, AR061: 4				115-151, 27-59, 86-107, 177-198, 1-25, 202-218

H0556: 494, H0265: 241, H0046: 107, L0601: 101, H0584: 98, H0521: 89, H0543: 78, S0027: 57, H0542: 57, L0591: 52, S0418: 49, S3014: 48, S0420: 46, H0559: 46, L0593: 44, L0596: 43, S0126: 42, H0266: 41, S0046: 38, S0152: 37, H0052: 36, H0617: 35, H0056: 34, H0134: 34, L0595: 33, S0040: 32, S0212: 32, H0561: 32, H0069: 31, H0286: 30, H0585: 29, S0132: 29, L0666: 29, H0083: 26, H0623: 25, H0657: 24, S0278: 24, H0575: 24, H0341: 23, H0494: 23, S0045: 21, L0659: 21, H0666: 21, L0588: 21, L0592: 21, H0090: 20, S0344: 20, L0751: 20, L0754: 20, S0194: 20, H0040: 19, H0125: 18, H0618: 18, H0318: 18, L0663: 18, H0144: 18, H0013: 17, S0022: 17, H0424: 17, H0135: 17,						

			T0042: 17, H0658: 17, S0011: 17, S0192: 17, S0360: 16, T0040: 15, H0292: 15, H0063: 15, L0748: 15, H0136: 15, H0167: 14, S0358: 14, S0222: 14, H0599: 14, H0124: 14, H0087: 14, H0551: 14, L0775: 14, L0664: 14, H0519: 14, H0518: 14, S0037: 14, H0250: 13, H0253: 13, H0581: 13, H0457: 13, S0028: 13, T0002: 12, H0141: 12, H0140: 12, T0110: 12, H0014: 12, H0288: 12, H0628: 12, H0412: 12, S0144: 12, S0002: 12, L0662: 12, L0653: 12, S0032: 12, H0667: 12, H0370: 11, H0290: 11, H0622: 11, S0150: 11, H0641: 11, H0522: 11, L0750: 11, L0608: 11, H0665: 11, S0424: 11, H0580: 10, H0333: 10, S6028: 10, H0284: 10, H0591: 10, H0634: 10, L0744: 10, L0757: 10, H0352: 10,			

			T0039: 9, L0471: 9, H0620: 9, S0036: 9, H0560: 9, H0529: 9, L0372: 9, L0665: 9, H0435: 9, L0740: 9, H0445: 9, L0597: 9, H0423: 9, H0650: 8, H0431: 8, H0586: 8, H0257: 8, H0486: 8, H0038: 8, H0616: 8, H0264: 8, H0059: 8, H0100: 8, H0625: 8, L0369: 8, L0363: 8, L0378: 8, L0382: 8, H0555: 8, H0631: 8, L0755: 8, H0624: 7, H0255: 7, H0587: 7, H0497: 7, H0492: 7, H0635: 7, S0049: 7, L0388: 7, L0774: 7, L0654: 7, L0657: 7, H0670: 7, H0660: 7, H0672: 7, L0742: 7, L0439: 7, L0747: 7, L0752: 7, L0758: 7, L0599: 7, S0342: 6, H0295: 6, H0638: 6, S0444: 6, S0468: 6, H0156: 6, T0115: 6, H0545: 6, H0123: 6, H0024: 6, H0606: 6, S0210: 6, S0426: 6, L0381: 6, L0655: 6, L0383: 6, H0520: 6, H0689: 6, H0659: 6, L0602: 6, H0214: 6, H0159: 5, T0049: 5, H0661: 5,			

			S0442: 5, H0619: 5, L0717: 5, S0010: 5, H0309: 5, H0544: 5, H0050: 5, H0012: 5, T0010: 5, H0594: 5, H0188: 5, H0615: 5, H0213: 5, H0553: 5, H0644: 5, H0181: 5, H0268: 5, S0038: 5, H0429: 5, H0646: 5, S0142: 5, S0208: 5, L0763: 5, L0770: 5, L0767: 5, L0565: 5, H0547: 5, H0682: 5, S0328: 5, H0627: 5, L0589: 5, H0668: 5, S0196: 5, H0422: 5, S0116: 4, H0662: 4, H0402: 4, S0356: 4, S0354: 4, S0007: 4, H0550: 4, H0441: 4, H0438: 4, H0643: 4, T0109: 4, H0075: 4, H0036: 4, S0182: 4, H0327: 4, H0546: 4, H0051: 4, H0375: 4, L0456: 4, H0647: 4, L0637: 4, L0646: 4, L0764: 4, L0648: 4, L0375: 4, L0518: 4, H0690: 4, H0436: 4, H0626: 4, L0745: 4, L0731: 4, H0171: 3, H0218: 3, S0134: 3, S0282: 3, H0664: 3, H0458: 3, S0376: 3, S0300: 3, H0261: 3, H0549: 3,			

			S0312: 2, S0250: 2, S0214: 2, H0328: 2, H0688: 2, L0483: 2, H0033: 2, H0031: 2, L0142: 2, L0143: 2, L0455: 2, S0366: 2, H0316: 2, H0598: 2, H0163: 2, T0067: 2, H0488: 2, L0351: 2, H0366: 2, S0440: 2, H0509: 2, H0132: 2, L0762: 2, L0769: 2, L0638: 2, L0642: 2, L0521: 2, L0766: 2, L0386: 2, L0540: 2, S0006: 2, S0374: 2, S0148: 2, H0684: 2, H0539: 2, S0146: 2, H0576: 2, S0392: 2, S0206: 2, L0741: 2, L0777: 2, L0753: 2, L0759: 2, S0436: 2, L0605: 2, L0590: 2, L0604: 2, L0362: 2, L0366: 2, H0216: 2, H0170: 1, H0395: 1, H0219: 1, H0224: 1, H0225: 1, H0161: 1, H0220: 1, H0158: 1, H0222: 1, H0686: 1, S6024: 1, L0002: 1, H0656: 1, L0785: 1, H0419: 1, S0001: 1, H0254: 1, H0671: 1, H0176: 1, H0305: 1, S0348: 1, L0005: 1, S0408: 1, S0410: 1, T0008: 1,			

					L0428: 1, H0722: 1, H0208: 1, H0645: 1, S6026: 1, H0351: 1, H0411: 1, L0394: 1, S0220: 1, H0392: 1, H0357: 1, H0409: 1, H0403: 1, H0282: 1, H0600: 1, H0362: 1, H0331: 1, H0491: 1, H0485: 1, H0270: 1, T0112: 1, H0122: 1, H0004: 1, H0390: 1, T0048: 1, H0505: 1, H0085: 1, H0183: 1, H0205: 1, H0596: 1, H0597: 1, H0231: 1, H0121: 1, H0439: 1, L0041: 1, H0009: 1, N0003: 1, S0050: 1, L0163: 1, S0388: 1, H0275: 1, H0399: 1, H0354: 1, H0271: 1, H0416: 1, S0318: 1, S0316: 1, H0428: 1, T0023: 1, H0604: 1, H0180: 1, H0182: 1, L0055: 1, H0165: 1, H0166: 1, H0673: 1, H0361: 1, H0189: 1, H0400: 1, H0379: 1, H0477: 1, H0433: 1, H0269: 1, H0022: 1, T0041: 1, L0475: 1, S0382: 1, S0464: 1, S0306: 1, H0131: 1, H0633: 1, H0026: 1, L0640: 1, L0371: 1, L0667: 1,		

					L0772: 1, L0373: 1, L0374: 1, L0765: 1, L0773: 1, L0561: 1, L0650: 1, L0651: 1, L0776: 1, L0606: 1, L0661: 1, L0629: 1, L0628: 1, L0527: 1, L0636: 1, L0542: 1, L0526: 1, L0783: 1, L0809: 1, S0052: 1, S0428: 1, H0683: 1, H0710: 1, H0187: 1, H0478: 1, L0609: 1, L0612: 1, L0780: 1, S0394: 1, L0485: 1, L0581: 1, L0361: 1, H0217: 1, S0242: 1, S0276: 1, S0042: 1, S0384: 1 and H0506: 1.				193-220, 1-17, 139-155
1405	HUCPE29	897919	1415	38-823	2820	Gln-26 to Ala-39, Cys-48 to His-55, Pro-79 to Arg-87, Ala-124 to Pro-130, Leu-220 to Gly-225.	AR096: 1, AR104: 1, AR060: 1, AR089: 1, AR055: 1, AR033: 1, AR039: 0, AR061: 0, AR053: 0, AR052: 0 H0081: 2, S0192: 2, H0717: 1 and S0420: 1.				

[0056] The first column in Table 1 provides the gene number in the application corresponding to the clone identifier. The second column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods described elsewhere herein.

[0057] The third column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The fourth column provides the "SEQ ID NO:" identifier for each of the contig polynucleotide sequences disclosed in Table 1. The fifth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 6, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0058] The sixth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 5. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[0059] Column 7 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table

1. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[0060] Column 8 in Table 1 provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 8 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 8 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ^{33}P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression.

[0061] Column 9 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact

matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0062] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990); and Gish and States, Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[0001] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 10, Table 1, labelled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 2

Clone ID NO:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/ Percent Identity	NT From	NT To
HLTDP38	465120	14	blastx.2	(AF090930) PRO0478 [Homo sapiens]	gb|AAF24045.1|AF090930_1	78%	117	7
HMAGF64	562775	43	blastx.2	AmpG-signal transducer [Escherichia coli]	emb|CAA57653.1|	98% 100% 91% 26%	482 3 280 358	1027 296 489 516
HLHSC60	638175	82	blastx.2	PRO2730.	sp|AAG35553|AAG35553	99%	351	722
H6ESA95	638229	83	blastx.2	CDNA FLJ11773 fis, clone HEMBA1005852.	sp|BAB13907|BAB13907	89%	322	783
HKMAA36	638339	84	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb|AAC17119.1|	81%	169	888
HISBE12	645267	86	blastx.2	(AL136944) hypothetical protein [Homo sapiens]	emb|CAB66878.1|	92%	15	1193
HEBAE43	645268	87	blastx	(AF161509) HSPC160 [Homo sapiens]	gb|AAF29124.1|AF161509_1	100%	62	520
HAIDX85	672653	107	blastx.2	CDNA: FLJ23091 fis, clone LNG07220.	sp|BAB15540|BAB15540	96%	954	1802
HLJDK82	678819	111	blastx.2	GK001.	sp|Q9NRG3|Q9NRG3	99%	238	1683
HMCFA76	684293	114	blastx.2	Hypothetical 13.0 kDa protein.	sp|AAG29199|AAG29199	41%	112	447
HTHCM28	684309	115	blastx.2	(AJ223830) ARE1 [Rattus norvegicus]	emb|CAA11566.1|	97%	7	1392
HCE1U38	685495	119	blastx.2	(AL136617) hypothetical protein [Homo sapiens]	emb|CAB66552.1|	99%	24	1067

HE8EQ09	695741	125	blastx.2	(AL049929) hypothetical protein [Homo sapiens]	emb|CAB43210.1|	99%	195	1184
HMEIU36	708053	135	blastx.2	TUMOR SUPPRESSOR (LUCA-1).	sp|Q12794|Q12794	45% 53%	153 561	533 605
HDFAB91	731889	173	blastx.2	(AF184227) tty [Drosophila melanogaster]	gb|AAD55738.1|AF184227_1	28% 36%	339 268	953 357
HSDJN50	740786	187	blastx.2	Cation efflux system protein CzcD. [Escherichia coli]	dbj|BAA35414.1|	100%	2348	1410
HSRFP52	745408	202	blastx.2	STRABISMUS.	sp|O45030|O45030	48% 34% 31%	479 58 58	1276 468 327
HE8NL29	750243	207	HMMER 1.8	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	5.51	460	531
HHGBS74	753235	215	blastx.2	coded for by C. elegans cDNA yk34b1.5; coded for by C. elegans 1 1 coded for by C. elegans cDNA yk46e8.3; coded fo	gb|AAB00699.1|	51% 50% 80% 88% 71%	322 1057 1581 1539 263	1449 1554 1658 1589 325
HTAAT39	753289	216	blastx.2	CD84 [Homo sapiens]	gb|AAD04232.1|	34% 36%	408 179	884 409
HMGBP83	759888	227	blastx.2	ZINC TRANSPORTER LIKE 2.	sp|Q9JKN1|Q9JKN1	94%	162	1289
HTEIA85	778081	264	blastx.2	hypothetical protein [Arabidopsis thaliana]	emb|CAB10408.1|	45% 29%	653 23	1582 373
HSHBF13	778087	265	blastx	Similarity to Yeast E1-E2 ATPase YEL031W (SW:YED1_YEAST); cDNA 1 1 EMBL:D37288	emb|CAB05683.1|	63% 33% 88%	66 309 9	344 683 110

				comes from this gene; cDNA EST EMBL				
HFXGI63	799513	337	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp|BAB15071|BAB15071	71% 82%	2424 2510	2212 2424
HSLDO85	801935	340	blastx.2	HSPC171.	sp|Q9NZZ7|Q9NZZ7	78% 96%	100 437	486 514
HLKDC74	812760	357	blastx.2	(AF117297) TNF receptor superfamily activation-inducible protein [Homo sapiens]	gb|AAD19694.1|	95%	195	932
HWLIX39	815669	360	blastx.2	PUTATIVE FATTY ACID DESATURASE MLD.	sp|O15121|O15121	64%	84	1025
HMIAN37	828988	375	blastx	Similarity to Yeast MSP1 protein (TAT-binding homolog 4) (SW:MSP1_YEAST) [Caenorhabditis elegans]	gnl|PID|e1347884	79% 53% 23% 38% 25%	412 742 91 337 247	729 1005 246 390 366
HPFDI25	829071	376	blastx.2	CDNA FLJ20533 FIS, CLONE KAT10931.	sp|Q9NWY5|Q9NWY5	98%	380	862
HFKEH50	833067	401	blastx.2	(AK000833) unnamed protein product [Homo sapiens]	dbj|BAA91394.1|	98% 96%	356 198	1603 377
HELHM15	834810	404	blastx.2	CDNA FLJ12133 fis, clone MAMMA1000278.	sp|BAB13983|BAB13983	97% 97% 100%	834 1361 1072	394 1068 827
HTEJP13	834931	405	blastx.2	R27328_2.	sp|O75295|O75295	93%	23	268
HBJNB08	836997	413	blastx.2	T10O22.22.	sp|Q9LM25|Q9LM25	34%	118	921
HTJMQ74	838145	423	blastx.2	(AK000996) unnamed protein product [Homo sapiens]	dbj|BAA91458.1|	100%	220	1044

HOHCE56	838619	424	blastx.2	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	gb|AAD51367.1|AF177203_1	98% 95% 100% 95%	517 335 273 1754	1761 541 344 1819
HSLEK65	839237	428	blastx.2	Arginine transport system protein ArtQ. [Escherichia coli]	dbj|BAA35576.1|	99%	17	730
HWGAF42	839272	429	blastx.2	(AJ245820) type I transmembrane receptor [Homo sapiens]	emb|CAB57950.1|	99% 94% 32% 35% 34% 31% 23%	8 336 11 89 110 83 12	367 650 298 382 271 271 287
HCRBB73	844034	450	blastx.2	CG8311 PROTEIN.	sp|Q9V7R7|Q9V7R7	42%	466	1209
HWHHU11	844529	451	blastx.2	(AJ243649) putative metal transporter [Homo sapiens]	emb|CAB59979.1|	90% 93% 100%	85 597 569	624 1058 625
HLWAR77	847144	458	blastx.2	(AF119815) G-protein-coupled receptor [Homo sapiens]	gb|AAD22047.1|	99%	2	997
HCE2W33	847388	459	blastx.2	CDNA: FLJ21676 fis, clone COL09164.	sp|BAB15113|BAB15113	84% 100%	915 772	1820 1080
HSOAC39	847431	460	blastx.2	predicted using Genefinder; Similarity to Mouse FK506-binding protein (SW:FKB3_MOUSE) [Caenorhabditis elegans]	emb|CAA92994.1|	45%	170	511
HHEVC06	851355	490	blastx.2	pva1 [Plasmodium vivax]	emb|CAA63219.1|	49% 60%	560 804	784 893

HDPBI36	852845	499	blastx.2	hypothetical protein DKFZp564J0863.1 - human (fragment)	pir|T17320|T17320	81% 92%	26 529	541 612
HCFNG65	853186	504	blastx.2	(AK001882) unnamed protein product [Homo sapiens]	dbj|BAA91959.1|	98%	30	908
HTOHA37	856923	530	blastx.2	(AF132951) CGI-17 protein [Homo sapiens]	gb|AAD27726.1|AF132951_1	98%	9	881
HDPFH27	859875	597	blastx.2	APOPTOSIS-INDUCING FACTOR AIF.	sp|O95831|O95831	100%	95	1933
HAMGP34	861668	620	blastx.2	(AF065389) tetraspan NET-4 [Homo sapiens]	gb|AAC17120.1|	43%	17	736
HNECI74	862042	624	blastx.2	PRO1902.	sp|Q9UHT1|Q9UHT1	63%	248	394
HHFMA59	862567	633	blastx.2	(AF126024) stromal cell protein isoform [Homo sapiens]	gb|AAF17233.1|AF126024_1	71%	249	749
HCE3X63	862807	636	blastx.2	Similar to D.melanogaster cadherin-related tumor suppressor [Homo sapiens]	dbj|BAA13407.1|	98% 96% 36%	314 243 226	2422 317 324
HCE2K01	862851	637	blastx.2	NEURAL MEMBRANE PROTEIN 35.	sp|O88407|O88407	89% 95%	103 599	603 1051
HBXGQ49	863848	652	blastx.2	(AK001692) unnamed protein product [Homo sapiens]	dbj|BAA91840.1|	48%	138	1565
HCECL08	863887	653	blastx.2	(AB025904) carbonic anhydrase 14 [Homo sapiens]	dbj|BAA85002.1|	99% 98%	207 699	704 992
HEMET46	863977	656	blastx.2	(AF060883) endomucin [Mus musculus]	gb|AAD05208.1|	37%	201	983
HCEVF41	866297	688	blastx.2	(AJ245937) glucose	emb|CAB75702.1|	95%	109	1071

				transporter [Homo sapiens]		90% 52% 32%	53 963 616	112 1112 888
HSSKF43	866388	691	blastx.2	(AB028127) mannosyltransferase [Homo sapiens]	dbj|BAB18567.1|	93% 100% 75%	55 732 2	744 977 112
HKATA81	867546	708	blastx	(AF161512) HSPC163 [Homo sapiens]	gb|AAF29127.1|AF161512_1	100%	51	467
HDPMO69	868484	737	blastx	(AK002135) unnamed protein product [Homo sapiens]	dbj|BAA92099.1|	100%	120	941
HFTCV95	869639	759	blastx.2	(AF151821) CGI-63 protein [Homo sapiens]	gb|AAD34058.1|AF151821_1	97%	38	1156
HTLEI29	870142	770	blastx.2	(AC005622) R30953_1 [Homo sapiens]	gb|AAC34467.1|	100% 66%	106 1235	1239 1351
HSRAV54	871264	797	blastx.2	PRO2550.	sp|AAG35515|AAG35515	70%	1626	1327
HHEOI72	871663	806	blastx	ZC513.5 gene product [Caenorhabditis elegans]	gb|AAC48267.1|	34% 46% 42% 62%	396 861 1083 1401	824 1118 1373 1472
HDABD89	872527	833	blastx	(AF131781) Unknown [Homo sapiens]	gb|AAD20044.1|	99%	345	1514
HHFJG66	873355	836	blastx.2	(AC006955) hypothetical protein [Arabidopsis thaliana]	gb|AAD22340.1|AC006955_26	34% 39% 17%	1475 1013 804	2494 1774 920
HTTEL61	873679	838	blastx.2	(AL137200) hypothetical protein [Homo sapiens]	emb|CAB69910.1|	66%	364	762
HHEVQ56	874064	841	blastx.2	(AC009322) Unknown protein [Arabidopsis	gb|AAD55479.1|AC009322_19	36% 50%	313 203	624 298

				thaliana]				
HSLJR04	874369	845	blastx.2	Cell division protein FtsK. [Escherichia coli]	dbj|BAA35615.1|	93% 95% 86% 100% 65% 100% 93% 96% 90% 45% 51% 40% 51% 25% 60% 27% 45% 44% 36% 27% 25% 34% 34% 36% 30% 29%	368 1787 864 595 1476 1031 1165 1887 1346 840 173 846 858 951 858 499 1022 971 1034 583 493 1019 670 493 849 855	18 1473 568 344 1147 867 1031 1789 1221 586 36 565 742 610 775 296 861 870 870 326 326 897 404 410 745 757
HFATS83	875269	863	blastx.2	put. Cyt repressor (aa 1-341) [Escherichia coli]	emb|CAA27318.1|	94%	93	467
HWLMC49	875704	875	blastx.2	(AK000820) unnamed protein product [Homo	dbj|BAA91388.1|	80%	176	550

				sapiens]				
HDABK73	876546	894	blastx.2	zinc finger protein - Arabidopsis thaliana	pir|T46147|T46147	32% 26% 31%	403 1207 1540	936 1509 1662
HWAHE17	879774	969	blastx.2	Small rec.	sp|AAF43032|AAF43032	46% 73%	259 612	609 656
HWAEG32	879900	970	blastx	Hypothetical protein in pth-prsA intergenic region . [Escherichia coli]	dbj|BAA36064.1|	100% 97%	3 371	368 472
HSDFD90	880039	976	blastx	Na+/H+ antiporter protein nhaB [Escherichia coli]	dbj|BAA36033.1|	98% 100% 88%	67 3 47	723 44 73
HHENP77	880178	979	blastx.2	Hypothetical 79.4 kDa protein.	sp|CAC09450|CAC09450	100%	770	2893
HNFIB27	880254	982	blastx.2	B0034.3 gene product [Caenorhabditis elegans]	gb|AAC38816.1|	26% 26% 46%	156 1065 77	1004 1529 115
HNSMB73	883132	1075	blastx.2	19.5 protein [Mus musculus]	gb|AAA37113.1|	36% 45%	7 368	375 592
HEEAX26	883176	1080	blastx.2	(AX058090) unnamed protein product [Homo sapiens]	emb|CAC22478.1|	99% 100% 42%	281 1067 1566	1069 1666 1622
HISBV17	883238	1083	blastx.2	transporter protein [Homo sapiens]	gb|AAB47236.1|	46%	1	525
H2CBE07	883335	1092	blastx.2	PEPTIDE/HISTIDINE TRANSPORTER.	sp|O09014|O09014	87% 88%	598 305	1314 592
HTOAW80	883376	1097	blastx.2	putative [Caenorhabditis elegans]	gb|AAA27934.1|	28%	363	1385
HELFG05	883434	1102	blastx.2	(AK001914) unnamed protein product [Homo	dbj|BAA91975.1|	98%	3587	2331

				sapiens]				
HSLEN72	884818	1126	blastx.2	probable membrane protein b0847 - Escherichia coli	pir|G64822|G64822	89% 100%	67 2	435 67
HHFJI87	888142	1161	blastx.2	(AK000224) unnamed protein product [Homo sapiens]	dbj|BAA91020.1|	44%	306	923
HOUGB95	888279	1165	blastx.2	WUGSC:H_DJ0593H12.2 PROTEIN.	sp|O95003|O95003	100%	73	795
HSLKC45	889371	1174	blastx.2	(AF093673) layilin [Cricetulus griseus]	gb|AAC68695.1|	84% 57%	124 1204	1239 1245
HSLFZ79	892016	1185	blastx.2	ORF_f447 [Escherichia coli]	gb|AAA97114.1|	100%	173	1513
HDQGN46	892018	1186	blastx.2	OX2 receptor precursor.	sp|AAF98555|AAF98555	58% 38%	400 265	1323 381
HPIAN49	892164	1188	blastx.2	probable membrane protein b0847 - Escherichia coli	pir|G64822|G64822	100%	1	1251
HLQFF81	893535	1194	blastx.2	(AB015192) 50 kD glycoprotein (Rh50) [Mus musculus]	dbj|BAA32441.1|	55% 50%	3 695	374 730
HTPGG10	895024	1211	blastx.2	(AF072128) claudin-2 [Mus musculus]	gb|AAC27079.1|	83%	192	530
HKAHR43	895539	1214	blastx	(AF128113) prominin-like protein [Mus musculus]	gb|AAD22488.1|AF128113_1	72%	1830	2606
HWHGQ46	895880	1219	blastx.2	CGI-78 PROTEIN.	sp|Q9Y386|Q9Y386	100% 88% 76%	514 1161 1214	1161 1214 1264
HJPAZ12	896370	1225	blastx	RP140-upstream [Drosophila melanogaster]	gb|AAD40352.2|	32%	329	898
HPTVU91	896517	1227	blastx	(AB012692) CAC-1 [Homo sapiens]	dbj|BAA87335.1|	62% 39%	411 606	340 469

HETJW92	896874	1232	blastx.2	MAL protein [Homo sapiens]	gb|AAA36196.1|	40%	37	429
HTTBH18	897055	1235	blastx	one short region of weak similarity to S. cerevisiae protease A 1 1 [Caenorhabditis elegans]	gb|AAC69037.1|	50% 43% 43% 38%	1050 239 570 713	1295 307 638 790
HSLAS08	897262	1237	blastx.2	(AE000294) regulator of length of O-antigen component of lipopolysaccharide chains [Escherichia coli]	gb|AAC75088.1|	100%	16	975
HTLJA52	897328	1238	blastx	lysozyme (EC 3.2.1.17) - bare-faced crassow	pir|JE0185|JE0185	64% 48%	199 415	402 582
HEBFI34	897852	1240	blastx.2	(AF242523) hypothetical transmembrane protein SBBI53 [Homo sapiens]	gb|AAF99603.1|AF242523_1	89%	1140	424
HHFJV91	898152	1250	blastx.2	(AK024046) unnamed protein product [Homo sapiens]	dbj|BAB14797.1|	91%	2	502
HABAD39	898401	1253	blastx	signal recognition particle receptor beta subunit [Mus musculus]	gb|AAA69976.1|	86%	90	848
HSUMA53	898943	1259	blastx.2	weak similarity to C. elegans predicted protein C33G8.2 [Caenorhabditis elegans]	gb|AAB00721.1|	36%	367	843
HHFNI70	899099	1260	blastx	glycoprotein CD44 [Rattus norvegicus]	gb|AAA53532.1|	30% 37%	177 408	422 551
HAHCK43	901386	1275	blastx.2	(AB028228) ZCF61 [Arabidopsis thaliana]	dbj|BAA87953.1|	30%	7	516

HHEPR52	904360	1299	blastx	(AF151020) HSPC186 [Homo sapiens]	gb|AAF36106.1|AF151020_1	97%	146	568
HEOPR46	904471	1302	blastx.2	SERPENTINE RECEPTOR.	sp|Q9QZT2|Q9QZT2	39%	62	547
HTLIT05	904861	1306	blastx	(AB029334) HrPET-1 [Halocynthia roretzi]	dbj|BAA81907.1|	41% 42%	171 672	704 998
HSKAS66	905017	1310	blastx	(AF004876) 54TMp [Homo sapiens]	gb|AAD01206.1|	66% 50%	277 160	648 231
HLTAG56	905871	1324	blastx	(AK000922) unnamed protein product [Homo sapiens]	dbj|BAA91427.1|	59% 68% 71% 34%	136 1228 910 1136	834 1560 1137 1231
HWLCJ12	906285	1330	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1	gb|AAB00807.1|	88%	2056	2235
HTHCK88	906306	1331	blastx	(AK001651) unnamed protein product [Homo sapiens]	dbj|BAA91811.1|	100% 99% 98%	457 1327 299	1272 1731 454
HELGY02	907105	1349	blastx.2	Similar to sulfatase [Caenorhabditis elegans]	gb|AAA83618.1|	50% 59%	354 2379	1655 2687
HIBCH43	910448	1398	blastx.2	(AK000373) unnamed protein product [Homo sapiens]	dbj|BAA91121.1|	98%	113	1225

[0002] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the Table was determined. The fifth column provides a description of the PFAM/NR hit identified by each analysis. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, score/percent identity, provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM"), as described below.

[0003] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990); and Gish and States, Nat. Genet. 3:266-272 (1993). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number

of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0004] The PFAM database, PFAM version 2.1, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, 1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFAM version 2.1. A HMM derived from PFAM version 2.1 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFAM family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFAM hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which show a significant match to a PFAM protein family.

[0005] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0006] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are

useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0007] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0008] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on March 24, 2000, and receiving ATCC designation numbers PTA-1559). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0009] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[0010] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation, therefor. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the - agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0011] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to

the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0012] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[0013] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript and a primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA

preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the gene of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant gene.

[0014] The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on March 24, 2000, and receiving ATCC designation numbers PTA-1559) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as described, for example, in Table 1. These deposits are referred to as "the deposits" herein. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1 or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0015] Also provided in Table 1 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0016] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res. 16:*7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res. 17:*9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies 5:*58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene.

Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0017] Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus 15:*59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res. 16:*9677-9686 (1988) and Mead, D. *et al., Bio/Technology 9:* (1991).

[0018] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0019] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by genes corresponding to SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0020] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced

polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0021] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0022] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the polypeptides of the present invention in methods which are well known in the art.

[0023] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0024] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the fourth column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a	EST Disclaimer Range of b	Accession #'s
HCFNH88	11	413036	1 - 468	15 - 482	AA299504, BF508870, T12637, AF199509, and AK026089.
HODDW37	12	456287	1 - 609	15 - 623	T83532, BF107206, and R09982.
HPMFI38	13	463734	1 - 542	15 - 556	H12876, N58678, AL514125, AB026116, and AC012153.
HLTDP38	14	465120	1 - 980	15 - 994	BE907584, AW328071, AW341406, AW518651, BF000229, AI985460, AI679820, AI679244, BE349182, AW026569, AI913105, AW167521, AI433441, AI824296, AI652506, BE669569, BF224375, AV740400, BE222251, BE551363, AI681756, AW241259, AA352068, AV736248, AV744048, AV741074, AI866013, AI500135, AV740719, BE767739, BF436765, AA363430, AW168483, AW328070, AL119025, BF382482, AI696550, BE541237, AV714931, BE538259, BE867712, R08202, AW168479, BF794062, AA330772, AA078255, AL046746, BF805349, F27015, AA569065, AI061313, BE676915, AA878352, AV719443, AI921188, AI499503, AL157529, AA626829, AL119259, AA281928, AA745362, R79496, AL040462, BG164166, AI560070, BF741627, H21488, AV763469, AA551798, AV727584, N73187, AA878140, AA229444, BE674952, AA167744, BE139267, AA570344, BF844349, AW103383, H12383, BE145254, H15032, BF767878, BF773092, AW970020, AA669709, AU118852, BG106485, BF834522, AI719656, AK024825, AK000254, AC004552, AL034420, AL035587, AP000170, AP000055, AF019413, AL049540, AP001720, AC006121, AP000502, AC010326, AC011482, D89870, AF037222, L47234, AP000124, AC020916, AC002073, AC002538, AC009275, AP000330, AJ252080, AL158141, AL121825, U95742, AC018738, AC005913, AL159168, AL021918, AC005586, AC002091, AC005036, AJ010770, AC007216, AC022148, AL353748, AC004152, AC007917, AL138717, AC011465, AP001725, AC006530, AL033526, AP000509, AL009181, AC083871, AL022578, AC006539, AC004972, AL445985, AC005366, AL158218, AC007283, AC004212, AL022311, AL031668, U63721, U29895, AC005081, AC006449, AL022312, AC008897, Z54336, AC006947, AC002997, AC005039, AC004638, AC000070, AC008012, AL049753, AL356020, AL031665, AL022326, AL133246, AF027390, AC005828, AL132653, AL133445, AK026841, AC006433, AL096703, AC004841, AC022392, AB023049, AB000931, AL121989, AC009470, AC005052, AB003151, AL158040, AC015853, AC007225, AC012351, AC002115, AC002429, AL122015, Z93016, AL136300, AB014077, AL031311, AP001759, AC010458, AF220542, AC020955,

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HMHBT30	15	465711	1 - 417	15 - 431	BE868959, AV752876, BF594683, and R29204.
HFCBA57	16	466000	1 - 616	15 - 630	R56760, AW966299, AA339406, AI692199, R13164, AF150231, and AL121968.
HSRAL33	17	488966	1 - 956	15 - 970	BF980228, AV761652, AI769998, BF248482, BF570491, AA424644, AW268553, BF979946, BE877187, AW606938, AU130113, BF381651, AI985014, AA773189, BF696604, AA402448, AI214237, N79639, AW195871, AW197891, AA356925, AA293861, AW197782, AW195894, BE895108, BF572423, N54986, AA555193, AK022835, AF058718, AC004492, and X74635.
HSSMQ84	18	502907	1 - 401	15 - 415	AA296377, and AA378471.
HUKAB82	19	503441	1 - 446	15 - 460	R34441, BG256475, AW957006, AA300168, BE886285, AK027199, AC002394, and AC004381.
HDPPP46	20	506828	1 - 315	15 - 329	AW402168, BF726407, BE797379, H18753, BE782216, T77980, and BF756401.
HMTME11	21	506893	1 - 528	15 - 542	AW953715, AV755865, BF037206, BF978284, AA307934, BE739069, AA873152, F22832, AI095535, AA636042, BE252194, AI373026, AI311846, AI341706, BF675218, F32985, AW262015, AA947394, F32768, AV735940, AA654669, BE739920, AI581721, F27155, AV712832, AA551724, AV685728, AV736497, AI351541, D11719, AW778836, T55216, T54839, AA483200, AI300770, AV712712, N87448, BF210823, F36606, BF434132, BF246076, BF830933, BF830813, AA367358, BE927682, AA095761, AI271368, F31064, AI432581, AA169517, F30843, BE827338, AA872144, AK024594, AF147354, AL121900, AC007739, AL035689, and Z55938.
HBMUK46	22	507310	1 - 417	15 - 431	R53427, and AC005495.
HETDT70	23	509728	1 - 585	15 - 599	AA156832, BE893951, AW957032, AV693732, T96213, AA299371, AA321353, AI810397, AU076717, E16580, AF035268, AF035269, and U37591.
HPWBL19	24	521848	1 - 576	15 - 590	N37051, N22691, AW977672, BF060705, AI740565, BF216881, BE218331, H82723, AW027246, AI354919, AA283799, AA658062, AA749441, N78633, BE467194, BE856126, BE798857, AW269276, AA810447, AA855098, N35468, BF062174, AI694134, AI985299, AI536933, AA281155, AW594363, AA603857, AA761068, AA826929, AI937825, AW977673, AW014079, N24534, BF332207, BG036203, BF515448, AF035397, AF003627, AC005189, and AF130357.

HMKAD85	25	523186	1 - 410	15 - 424	AI589211, AW025408, AI625632, C15297, AA704635, AW028123, AI377558, and AA442923.
HE9NE12	26	524559	1 - 628	15 - 642	BE785096, BE179433, BE787964, BE784506, AW500409, BF085600, AU120753, BE179640, AW178302, AA334799, AL045511, BF571753, BF726397, U85056, and AK001145.
HE2AX73	27	525950	1 - 305	15 - 319	AW119011, AF009204, AB000275, AF119817, and AF119818.
HHGBV89	28	527491	1 - 362	15 - 376	AC016138.
HTTDC06	29	529791	1 - 468	15 - 482	AW249294, H46549, BF037340, and AB037814.
HFXKR35	30	532045	1 - 972	15 - 986	
HHSDL85	31	534414	1 - 657	15 - 671	R12427, and AB049848.
HTECA32	32	535036	1 - 462	15 - 476	
HTEHL79	33	535040	1 - 638	15 - 652	BG163316, AA326490, BF511719, AA234356, AW960948, BF911382, AA323651, AI290214, AC005839, X91879, and AC005920.
HPJBL54	34	536712	1 - 808	15 - 822	BE563266, BG112258, BF797934, BE272440, BF984016, BF326821, BF306396, BG113049, AL517732, BE315014, BF027560, BG257944, BE727070, R60599, BE563463, AA070383, BE206259, R20690, Z44632, AL079371, R21349, BE895144, BE926608, AA351700, AA218584, BE892486, AA973891, BE546412, BF038283, AA102133, AL530121, AA248752, AL525034, AL522857, BF927819, BF927818, and BF983582.
HSDDD20	35	538217	1 - 1028	15 - 1042	
HCUCG74	36	550208	1 - 861	15 - 875	BE781101, BE540200, AI972511, BE300952, AA464837, BG150212, AI681901, AW172458, AA099207, AW205564, AW408650, AW205714, AA450308, AA636047, AI656442, BF437116, BE466112, AW575656, AW962721, AW206882, AA099221, AI620473, AA369585, AW469939, AW136836, BE547752, AI638262, BF059133, AA236642, BE551958, AW086133, AI917742, AI623315, and AC005391.
HFIXK94	37	550992	1 - 399	15 - 413	BF366265, AF045448, AL163280, and AF064860.
HPJAV46	38	551777	1 - 403	15 - 417	BE274311, BF219801, BE531261, AW411242, BE531040, BE392456, AW377569, BF694069, AW377571, AV763995, BE263530, AW377537, AW377568, AV761917, AW377624, BF977274, AW852126, AV703358, AW852062, BE872120, BE164388, BE735905, AV711299, AV729227, BE780766, BE874878, AW393740, BF338865, BE615056, BE797162, BF691137, BF678996, BE901483, AA609994, BF311171, BE256747, BF793607, BE253983, AV714212, AL526398, AW852256, BF183197, BE736928, AV725124, BF700891, BG260744, BE743248, BF213101, BE250013, AW935221, BE299748, BE263146, BE300151, AW864172, AW410172, BF214422, BG171603, AW377567, BE873419, BF680148, BF312111, BE899308, AV713872, BG168000, BE741391, BF308822, BF205067, BF310727, BF203650, BF692699, AV708802, BG036583, BG248799, BE207590, BE207583, AI547302, BF304324, BF105254, BE272352, BE019519, BE732414, BE622069, AV751860, BF674867,

					BE300041, BE879936, BE544326, BF685977, BE314894, BE019478, AW852264, BE300351, BF237753, BE256192, BG033184, BF311434, BF686322, BE882480, BG121826, BE293606, AA399320, BF932221, BE395509, BE695712, BG105139, D30938, AV661326, BF686806, BE872697, BE273055, BG249490, BE270150, AV734330, BF683092, AV705448, BF692504, BF206919, AV703060, BE798386, BE882561, BE616007, BG026452, BE298381, BE262277, AW608096, BE070298, BE313176, BF979365, BE744054, BE812386, AW837967, AW732355, AW410757, BF106230, BE738991, BE812361, BF314692, BF932227, BF671336, BE812254, BF184921, BE261507, BF823639, AV711178, BE070300, BG167463, AV710849, BE931905, AV723237, BE812332, AV743501, AW956187, BE259759, BE784936, BF308955, BE900593, AW838045, AW838038, AW608103, AW608101, AW608107, AW608119, R80375, BE812322, BE019582, BE512851, AW608097, BE825686, AA430284, BE812328, AW852120, AW852072, BF203314, BE825718, AV706890, BE899494, AA007300, BF664876, AW837962, BF700537, BE763172, BE825692, BE694306, N28917, AW023727, BE936400, R71432, BE929628, AV702221, AI750601, AW753015, BF303816, AV729377, BE378338, AW837952, AW732592, AL533538, AW837965, BE311411, AA121281, AW837950, BF667711, AW372196, BF184919, AW372220, BF979547, T54945, AW580626, BE304857, AW391852, BF698766, BF665347, AV712080, AW952981, BF679450, AW373976, AW377490, BF671053, AA206647, BF700635, AA385623, AI908145, H85301, AV702882, BE263230, T82198, BF094304, BE394536, AA314228, BF383142, H25321, H25320, AW837966, BF203566, BF106427, BG119810, AA379542, BE612803, AW583199, BE732461, BF105082, BF970440, AV736809, AA332760, BF304301, BF316198, AL520449, BE091914, BE091982, AL039105, AX014088, D14696, and U34259.
HTTDL61	39	558312	1 - 315	15 - 329	AW241373, AI566355, R46114, H17077, AA939227, AW474575, AI242576, AL513923, T16523, R45283, F10525, AL133383, AP001726, AC087089, AC005670, AC005803, AP000696, AC004808, and AC002425.
HFPBN94	40	561612	1 - 1312	15 - 1326	AW195253, AW022456, AW022571, AV703012, AI652664, AV707458, AV728546, AW087595, AV703599, AW959521, AV702790, AI888208, AV705047, AW952410, AV705416, BE273626, AV705348, AW953797, AV656013, AV709247, AV651920, AV725633, AV702372, AV702266, AV707652, AV696791, AV709407, AV703494, AW959543, AW955723, AV658863, AW021930, BE966968, AW022168, AV728455, AV709587, AW962444, AW950443, AV726559, AV726088, AW020406, AW952403, AW952183, AW959806, AV656903, AW955613, AV661704, AW952751, AV696106, AV697196, AW956075, AV645936, AI473536, AV658084, AV692600, AV650315, AV659389, AW951263, AV697880, AV727613, AV726010, AV689111, AV728157, AV655280, AV660258, AV647789, AV708109, AW956474, AV659294, AV727787,

					AV703146, AV692345, AV686060, AV725745, AW951239, AV686064, AV728148, AV660608, AV659322, AV726156, AV654908, AI473934, AV726590, AV698545, AV656478, AV684962, AV708893, AV709314, AV653353, AV708381, AV654070, AV660728, AV659536, AV691080, AW951281, Y08991, AF130055, Y11505, AX047063, AF217994, A91160, AL137563, S68736, AK024588, X66871, AF151036, AK027109, AK025113, U80919, AF080068, U75304, and AL162083.
HYBBG69	41	562024	1 - 1205	15 - 1219	BE220363, BF892160, BE672744, F23227, AI345156, AI334884, AI340644, AI335399, AI336654, BE138684, AV736474, AI334930, AI309443, AI345790, AI345562, AI307520, AI345026, AI307454, AI340664, AI310592, AI307542, AI345817, AI344808, AI345739, AI345674, AI312143, AI349637, AI312168, AI334920, AW071276, AI344779, AI312258, AI310927, AI307515, AI307578, AI336488, AI349955, AI349738, AW020095, AW075093, AI334941, BG111837, AI312432, AW071377, AI311159, AI312357, AI311435, AI312237, AI312408, AV749238, AI349601, AI307549, AI349213, AI335125, AI349937, AA861958, AI254134, AW148354, AI310925, AI340659, AI340604, BF764538, AI349805, N67350, AI590048, AI307513, AI348981, AI344849, AV744830, AI343030, AI334889, AI273856, AI811192, AI312988, AW071380, AI336565, AI312325, AW071395, AV738918, AI288076, AI312963, AI758538, AA814582, AV736402, AI418436, AA826186, AI313352, AI310920, AI307503, AI311892, AA837290, AV744972, AI312959, AI307708, AW075084, AI336585, AI334913, AW327383, AI349266, AI334452, AI349787, AI310951, AI344938, AI241678, AI348969, AI340634, AI312146, AI312339, AI309431, AI340537, AI312165, AI345258, AI349628, AI349288, AI345310, AI282355, AI344260, AI340610, AI307459, AI343140, AI349971, AI289436, AV737782, AI345639, AI307507, AI348879, AI340642, AI340639, BG121774, AI334441, AI311604, AI343995, AI349220, AI340613, AI313325, AI307456, AI334943, AI311440, AI349960, AI312340, AI310930, AI309418, AI312333, AI312398, AI064830, AW071412, AI334908, AI312148, AI312252, AI049850, AI310945, AI334446, AI345149, AI340662, AI349000, AI312431, AI313350, AI312266, AA417129, AI312414, AI349020, AI312273, AI345251, AI377163, AI310941, AI251257, BG109553, AI470477, AI624976, AV760002, AC007565, Y09972, AL049300, AF175903, AJ242859, AL050024, AL157464, AK025860, AF088991, I77092, AL117394, AK000212, AF132205, AF175983, AL080163, L31396, AL080057, L31397, A70386, S56212, AK026870, U77351, AF213396, AL110228, E13052, Y07915, AF016394, AJ012288, AF130066, AB030200, L13297, AL050280, M69222, E06788, E06790, U49908, E06789, S71381, AL137276, AK026633, AF082526, AL110197, AK000083, AL137281, I03321, AF113699, AF119859, U53505, AF155827, AJ238617, AL117445, AK027173, AF090900, AB032264, AF246126, AK025889, X57961, L24896, X63410, AF038440, AF113690, X73361, AF151076, AB048994, AF082324, AF287051, AK024538, AL110171, AF118094, AL390154,

					E07941, and AK026522.
HDPOJ05	42	562077	1 - 1140	15 - 1154	BE903137, BE732613, AI269493, and AK024472.
HMAGF64	43	562775	1 - 1015	15 - 1029	
HACCO38	44	563589	1 - 686	15 - 700	AA307960, BF691085, AA366364, AA366829, BF030298, AL046574, AA281830, AW402257, AL133061, AB023173, AX011607, and AF236061.
HRAAM31	45	567314	1 - 1232	15 - 1246	AC006230.
HWDAA03	46	571474	1 - 799	15 - 813	BF064019, BF593236, and BF997680.
HTHCV60	47	572607	1 - 471	15 - 485	BF837516.
HTLEV17	48	573110	1 - 415	15 - 429	R85015, H30718, BG251214, T09058, Z42050, AL042216, BF339690, T08045, AL042446, Z41928, H26862, BE765911, H50921, BE714890, AL042272, AI940226, and AB002373.
HCFAB91	49	573179	1 - 425	15 - 439	AI570416, AW510367, T82334, and AU142902.
HMWEE18	50	573751	1 - 687	15 - 701	BF105895, AA062924, BF843990, R75831, BF086558, T94511, BE931013, AI808807, AW020372, BE671627, AI379326, and AW051986.
HTLAI85	51	574924	1 - 340	15 - 354	AL079482, AU125601, BE742829, AL530239, AW371246, AW367415, H49732, BF951592, BF772285, and D86966.
HHPGQ38	52	575287	1 - 648	15 - 662	BG165743, BF570243, BG166577, AA757672, R89840, N62892, N77803, AA873573, AW243945, BF769085, AI915081, AA297789, AI620992, AA503018, AA297006, AA598627, AA714073, AA862029, AI904944, AI185394, AA599532, BF766147, AA583386, AA102737, AW805539, AI816058, AI349130, BF791744, AW833901, BF884277, AI271762, AA780933, F08866, BF891621, AA809186, AA604147, AA302661, BF997771, AW961582, AA483606, AI049630, AA598605, AW880029, AA452325, AW821722, AI114534, AW821724, AI061303, AW264901, BE077105, H80989, AA570740, AW833047, BF447405, AI355246, AA568204, AA482792, AI310670, AA630854, AI570237, AI889579, BF883232, AA228778, N54538, AA642264, AW780190, AA486820, AA405549, AA635413, AL138299, T93109, BE787136, AW970064, AA326904, BF884894, BF858763, AA496268, R67701, BE149998, AI193417, AA482928, AV754399, AW821718, AA664126, BF922719, F35684, AA224807, AA486277, AA838091, AA847064, T83057, AA515939, AA410788, W96277, AW836439, R70883, AU147162, N91711, BF821072, BF857849, BF807722, AA578069, BG250286, AA501942, AV718585, AA365586, AA577824, AI310787, BG056362, AA642787, BF769229, AA020873, AW974363, AV722143, AV708029, AU120416, N64587, R34561, H65213, AA937809, AI306717, BF764105, AI054090, BE379437, BG113821, AA356376, BG150803, AW265688, AA378207, AA584207, AA630122, AI246061, AW301736, BF902460, BF815843, AI038358, AA229422, BF901391, BF345946, AW873207, AA339923, AV757738, BF918946, AA493797, T15890,

				AV754716, BF920612, AA745351, AA669560, AA601237, AI284045, BG057207, AI207738, BE501670, BF941269, R70884, AF075374, AI243793, AA766414, AI978782, AW969743, AL524675, AW273360, AC004099, I34294, AC005516, AC008277, AC009305, AC027644, AL139120, Z93930, AP000255, AP000213, AP000135, AL031846, AC026776, AP000031, U22028, A47886, AF024533, AC005088, AL080243, AC004973, AL390997, AL049643, AL034549, AL139318, AL136296, AL023575, AC008278, AL121825, AF196969, M26434, U52111, AR060394, X64467, L78833, AP001712, AC005165, AL022165, AK022034, AL137330, AC007200, AL049733, Z94802, AC000353, AF111163, AC005559, AC007565, AF165141, AP000252, AC008848, AC009362, AC007269, AC005841, AP000212, AP000134, AP000030, AL031595, AL109965, AL031282, AL049699, AC006251, AC004824, AC010000, AC006101, AL109953, AC007358, AL138997, AC007277, AC011742, AC009244, AC003664, AF027390, AJ400877, Y11107, AC022407, AC008050, AC004383, Z68284, AL359846, AL121757, AL139100, AP000501, AP000065, AC004799, AF219991, AC020917, AC019210, AC008762, AF002223, AL078463, AL391119, AC078889, AF196972, AC006511, AC005053, AL031311, AL109824, AL109743, AC005527, AP000305, AL135959, AC025275, AC002303, AC006536, AL049828, AP000350, AC020906, AL135879, AL121790, U02051, AP000313, AL391259, AL080106, AL049872, AK025621, AC006482, AC007089, AL022320, L09706, AL353092, AF200923, AF217413, AC009007, AC002306, AF024534, AC005222, AC006272, AC005391, AF184110, AL360175, AL031321, AL133211, AC007545, AC004814, AL138735, AL109825, Z75887, AF222685, AC005024, AF038458, AL138740, AP000502, AP000099, AC006966, AC004584, AL023553, AC004804, AL133260, AC006486, AL033518, AL031276, AC004466, AC007021, AC005383, AL138726, AF130248, AL354674, AC011442, AC023158, AC020633, AC027319, AL035404, AC011700, AL121759, AC024563, AC003669, AC007688, AL096701, AC007172, AC008064, AL158141, AC006059, AC009481, AL135960, AJ131016, AL049780, AC010087, AC010789, AL354984, AC006952, AL133246, AL022316, AC012153, AL133257, AP000193, AC067969, X55503, AL137162, AC003072, AP000050, AL022302, Z81364, AC008433, AL023804, AC005227, AC005857, Z98036, AC006088, AL049636, AC034246, AC010205, AL031847, AC004854, AL050307, L78810, AC006581, AC011495, AC005625, AL118513, AC024571, AL035071, AC011510, AC001231, AL352984, AL161665, AC005058, AL121774, AP000047, AC006026, AP000117, AP001718, AP001717, AL031985, AF017104, AC002094, AL035422, U07807, AP000115, M87889, AC005180, AC005971, AL031123, AC020946, AC008114, AC007248, AL138976, Z95116, AC006329, U78027, AC005740, AP001711, AC007030, AC004089, AL024498, and AL121581.

HNGER82	53	576739	1 - 626	15 - 640	R16017, AA570454, R02443, T77361, R16118, AW973414, R06273, and T77056.
HBJLU13	54	578925	1 - 539	15 - 553	AL353713.
HCFDC55	55	581501	1 - 474	15 - 488	AI683115, AW614790, AI949946, BE858872, BF939700, AI469900, AW172942, BE327191, AW451782, AI337875, AW239182, AW295271, AI363093, BE440149, AI471556, AI767259, AI683261, AW028130, BE349166, AI281604, AW027661, AI421188, AW473576, AW243195, AV650898, AI872021, AI376876, AI089774, AA749033, AA703436, N68539, AW235809, BF878349, AI750006, BF114982, AW976177, AV649714, AA526238, AA974484, AA455090, W37813, F09284, AW193169, AI493809, AI700797, Z41088, T92246, AW268135, AV662283, AV649952, T17498, F02060, AI916032, F04236, AV649786, AW976261, AL162084, AK000272, AL137741, and AL157494.
HFKCT25	56	586810	1 - 585	15 - 599	AA341121, and AA341124.
HAPOW05	57	587520	1 - 415	15 - 429	AA827188, BF511504, AW969122, AA504834, AW445204, R01230, BE909102, BG008470, BF951696, T93623, BF529606, AK026482, AB052145, and AF178935.
HCUFP05	58	589293	1 - 903	15 - 917	AL037337, BE250656, AL037347, BF690384, BF689438, AA738329, AW263173, AI401287, BF973585, BE646211, AI817738, AI361425, BF684855, AI500309, AA514406, AA781022, AI206043, AI039311, AW513395, AW510418, AA450076, AI582168, AI497642, AW027882, AI457954, AI734913, AI073893, AI493254, AW055011, AI688170, AW316771, AI344050, AW072287, AI304418, BF221940, AA535731, AI688548, AA399110, AA865470, BG056115, AI150686, N39612, AA843778, AI697688, AA503531, AW576502, AI554678, AI207587, AI381981, AI288532, AI342539, AI818835, AA782161, AI819112, AA844177, AA450132, AI675493, AI925355, AI302554, AA649895, AA826525, BF033350, AI279431, AA953657, AW044509, W60405, W81382, AW292965, BG055706, AI042277, AA758738, AI269455, AA594887, BE535387, AI419994, AA916356, AI694804, AI364286, AI351712, AA613382, AI990492, AA609491, AW406097, AA047617, AI864558, AA918532, AA282175, AA810568, AA633214, BE703250, AA626649, BE250680, AI559917, AW014338, AI918306, BF058804, AI351433, W46766, N93704, AI266616, AA366022, BE298972, BE675634, AA037691, AI382136, C00696, W35374, AA134788, T98249, BG106495, W21588, AI962666, BE273802, AA037690, BF206228, BF526713, AA531006, W23584, AW379851, BE541923, BE904747, BF530226, BF311708, BF683140, BE045182, AI630932, AI926182, BF312128, BE393551, AW118557, AW411235, BF205354, AA127565, BF128843, BE966499, AW411351, AV759970, AF043611, AF030291, AF001891, I48978, AR050959, AR068751, AF235093, Y11254, AF065135, A76335, I92592, S68736, A93016, AL110280, AF076633, AL389947, A91160, I89947, AR068753, AX030659, AF177401, I48979, I35495, AR072729, AC004942, AR072149, AK026744, AF184965, X83508, AR034821, AR037084, and S71381.

HE8CX53	59	597069	1 - 689	15 - 703	AU138655, AA081738, AW965288, T31616, H05397, T07153, AL035908, C14178, R18920, AA129192, AK002120, AL031117, and A80967.
HCENB31	60	597213	1 - 494	15 - 508	AW960962, Z43654, AA324303, BF955373, AW897155, AW897153, R76139, R80448, AX023742, AF074483, AJ012188, AF069755, AF099033, AF095784, AF056085, AX023740, AF058795, AJ011318, and AF074482.
H7TME55	61	597832	1 - 485	15 - 499	I33191, U22491, and E13005.
HDHMA49	62	600734	1 - 912	15 - 926	R35934, H29244, BE207202, R85125, R90888, H05353, AW966265, R14779, H51247, AA338672, R51725, AA488106, AI873131, AI500178, AI480182, F11386, BF530977, D29763, D64009, and D64010.
HBXBG68	63	610609	1 - 542	15 - 556	
HGBFC53	64	613240	1 - 459	15 - 473	BE549278, BE733028, BF684135, AL523005, BE799676, BF569653, BG025571, BE543724, AU122781, AU118901, BE546787, BE901627, BE619508, BG261003, BF125994, BE867036, BE514804, AU126661, T27149, AA453548, BE872645, BF982234, AA428039, BE732727, H06555, T08101, BF725406, AI372543, BF686296, BF812709, T74159, AA349657, AA137103, F12624, W84358, BG011753, BE271430, BE271832, BF848808, AA464305, T33225, AA210971, BF081773, AI372544, AI567829, AI040013, N30951, BE265922, BE892906, AB033603, AK022488, AK021721, AF210052, AK001318, AF193844, and AF071316.
HPMCK47	65	613734	1 - 1190	15 - 1204	BF996080, W79900, R93661, BF768396, AI015952, R62914, BF435276, C17045, H13468, R23858, AW469629, BF769805, R64187, R63192, BF768469, BF807312, R79604, R64194, R28497, AA583351, AI342016, AI061587, AA330660, AA917802, N29380, AI220948, R81425, AI200655, R25950, AI128381, R79605, R64098, AI220985, BF431082, BF994016, AA729671, AA974341, R62915, BF768468, R81630, R64104, AI094352, AA001841, AP001748, AP001629, AC078847, AC017004, AC016628, AC002416, Z83848, AC010677, AL359313, AL008629, AC006249, AC008554, AC009505, and AF090920.
HAPNX53	66	613777	1 - 466	15 - 480	AV713823, AA482321, AV716627, AV713209, and A90848.
HOFAE02	67	614169	1 - 511	15 - 525	BE910195, BE783656, BE906341, BG178384, BE048049, BE973606, BE074234, N23506, AA995358, AA293374, N42420, BF970013, N29163, BF743351, BE782150, BF971148, AI924167, AV754940, N31382, AI300946, BG105075, BE896959, AV747543, AV702313, AW510702, AA507156, W38924, BE785316, BE890490, AW188107, H45202, N42404, H40733, AI983025, W95089, AI583243, BE880216, AI301966, W57541, AI015619, T31783, AW006794, BF674585, N33735, AA063083, AW630926, AW168796, BF679757, AA157599, BE858813, BE547758, BF670105, AW051432, R74310, AV742727, BG054826, BF699289, T31262, BE881479, BE879146, T19230, BE693583, AI125994, AW071976, AI360252, AW149790, AW877810, BF727414, W79708, BE714145, AW583802, BE764972, N33907, R23867, T35747, AI912804, Z42779, R22630, N42319,

					AI541287, BE122666, R39387, R28433, AA912616, AA846833, R33701, AW750247, AW297741, BF184398, AI090035, N28470, AI805679, AA702505, AI955820, BF196614, AA918990, AA769460, R67980, BF340421, AI128802, N94922, W95090, AA527383, F30122, AI418108, N33447, AA702099, AI308924, AI720299, H50365, BG109223, H42168, AA886635, AI025955, AI718979, AI857970, AW382456, AA948391, AI369901, AI056727, N24587, N76637, AI014666, AV707627, H70236, F37061, W04143, H50571, AI336552, AW014670, AW182324, AF092138, and AC006254.
HSLIQ83	68	614801	1 - 1099	15 - 1113	BF340747, BG260080, BE547694, AI392767, AU157156, W23048, BF513059, AA701938, AI817436, AI659366, BF948227, AU121610, H05668, AI682404, BG008771, R06611, BG222812, F09099, R49577, AW204732, H11394, Z41748, F02547, R06667, BF344354, R42148, BG026867, N53895, BE299243, A84110, AB028988, AK001996, AL137568, and AF057286.
HNTMD04	69	615231	1 - 613	15 - 627	W96405, H75441, T71263, H53046, and AC004849.
HRABY48	70	616154	1 - 366	15 - 380	AL049709.
HDDAA17	71	616652	1 - 740	15 - 754	AA044695, AA431595, AA044905, AU154369, AA431463, AW937978, AW875792, AW875597, AI745662, AA829389, AW170807, BE350003, AW875719, AI204384, AW665904, AI673728, AB046816, and AK001672.
HTRAC41	72	618715	1 - 735	15 - 749	T69560, and T69626.
HOSCV06	73	619875	1 - 1053	15 - 1067	AA146976, AA058965, AA147155, AI090186, AA099683, AA137215, AA099684, AI873263, AW173233, AI127920, AW082370, AA136188, AA279168, T94367, AI610013, T94721, AA092889, AW104403, AI797647, and AL133104.
HMCHS27	74	620219	1 - 506	15 - 520	AW965472, AA334472, AW631441, T82868, AW663438, AW005046, R94251, AA057050, H14927, BF693286, AA243549, BG251451, AV727485, H10895, BF836499, BE709741, N76939, AI061582, AV726610, AW994061, AW368027, BE779718, N56401, AV709174, AV728038, R60629, T83167, AA465291, BG236037, BF672374, AA249224, AA370905, BF360602, BE832703, AW869410, N52683, and AB029008.
HEMFC09	75	625334	1 - 657	15 - 671	BE877098, AW812330, BG035638, AU119507, D82299, BE771064, BE771065, AW888543, BF365190, BE006824, BE006769, BF514843, AB046813, AK021844, and AL096715.
HNTRJ16	76	625432	1 - 852	15 - 866	BF570656, BE969659, H05017, BF701826, T78233, T87257, AV757847, AA385525, AL038060, BE868803, BE568456, AK001241, and AC008179.
HKAEJ09	77	625517	1 - 559	15 - 573	BF726594, BE779521, AI300952, AI352014, and AF085877.
HKMMS65	78	625566	1 - 431	15 - 445	AW381509, AW373459, AW373457, BE894289, BG032374, BF355684, AA085609, BE543790, AW381236, AL529067, BE736532, AA564706, AW673127, R17632, BG250040, BG177016, BE867041, BE797933, BE904858, BG163418, BF308249, BE278984, BE256249, BE783475, and BF306765.
HNHGE09	79	625622	1 - 504	15 - 518	

HTTCT34	80	626178	1 - 478	15 - 492	BE561581, AL525396, C75208, BE545814, AA311414, AL526582, AL533011, AW411262, BF085161, AL522581, BG104167, AL520536, AL521296, AL526904, AA334000, AW938624, AU119915, H06122, AW239479, W38676, T50005, AA297279, BF115394, AA302953, AW383613, AW383609, BE958011, AW192348, AW383535, AU120830, AL525440, BF376170, AK022780, AK000480, and AK021925.
HBIAS14	81	637714	1 - 1172	15 - 1186	AI991774, AI793266, BE327552, R74441, BE669500, BF110563, BF448329, BF444926, BE674147, AI807726, BE326537, AW770471, R86080, W04256, AI218667, BE707244, AI492388, AI241532, AI656102, BG012864, BF899452, BF448184, AA301750, AA634640, AI209012, BF331319, BF351759, and BE162660.
HLHSC60	82	638175	1 - 2017	15 - 2031	AW954150, BE271663, BE882577, BE782266, BG034024, BF663854, BE893189, BE906274, BF795047, AI174990, AI064968, BE385133, AL045811, AW410843, BF965937, BE622204, BE614963, BE622511, BF678467, BE271473, BE070862, AW959590, BE271421, BG250794, BE393250, BE746439, AA311362, BE772855, BE268978, W07340, BE019799, BE898464, AA308973, BG027995, AW803849, BE070813, BE562790, BE616540, AW139566, AA131594, AW410844, BG168299, BF031891, BF944978, AW803908, BG255067, AA308972, BF964638, AA180857, BE931993, BE207171, AW386119, AA621720, AI129355, AW192930, BG107431, BG112045, AI288447, AL138262, BE772804, R13316, BG180320, AW902886, AW675677, AA356436, AA373955, AA359864, AI002952, AA180960, AA757406, N78600, T08173, AA705625, H08897, BF964047, AA300048, R98996, AW265468, BF907879, AA249313, AA330694, BE694965, AW611507, BE070869, BF801643, AW148821, AA206756, AI702049, AI445699, BE018971, BF934783, F08693, BG169186, AA846014, BG059139, AW262572, AA147521, AA300049, BF592442, BE070861, BF808559, BF805874, AL121039, AA377004, AA094441, BE770962, AI202581, AA352076, AA172103, AA157620, BF990008, AW577279, AA248016, AW302196, AW391207, AA668421, AW351439, BE142172, BF541501, BF805841, AI886293, BG254398, BE708133, BF342268, AF132207, AC021075, AL355871, AL137654, AL035458, AL096776, AL132825, AL135844, Z85987, Z99716, AL121712, AL133448, AL445483, AC024148, AC069253, and AC069253.
H6ESA95	83	638229	1 - 1139	15 - 1153	AL529511, BE274975, BE727372, BF130709, AW167560, BF594230, AA098911, AW269481, AL529512, AW778988, AI093550, AU145793, AA643337, BF968948, BE302021, BE042613, AI689039, AI081116, BE833918, AW080976, BE045302, AI870146, AI907088, AI799998, AW338493, AA604822, BE796992, BE501153, AI589588, BE379185, BE932009, AA565586, AA579904, BE728414, AI687423, N92368, BE791438, BE746912, AU119457, AW995464, AW044476, BE901684, BE389989, BE018410, BF969275, BF686029, BE260612, AW886202, BF361026, BE386194, BG251377, BF306113, BE797307, BE279225, AW577017, BE897898, BF684743,

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HKMAA36	84	638339	1 - 1332	15 - 1346	BE513233, BE513209, BE563828, BE513037, AW001365, BE871436, BE867966, BE617469, BG261129, BE870864, BE617915, AW070251, BE871223, BE304987, AW970056, BF448587, BF112001, BE293056, BG248754, BE870426, AI660579, BE743762, AI986001, AW970066, BF333600, BE076086, BF678100, AW970067, BE304713, BF671012, BE293772, BF679458, BE249898, AA100799, AI708181, BF674571, BE166441, AW843153, AI991860, BF029172, AW842808, AI720370, BE867929, BE385882, AA659332, AA468417, BE771000, AA420789, AA593864, BF676769, BE293578, BF843761, AA534171, AW392499, AW841127, BF677720, AI075023, AA861869, BE206760, AI568832, AW084457, AA659579, BF211307, AA846269, AA100852, AI276101, AI393647, AI041400, AA838513, AA812351, BE159111, AA132967, AA558636, AW188399, AA552617, AA161043, BF511652, AW603844, AW135391, AI972822, AA159272, AA132677, BE694924, AA149408, AA146606, AA574382, AI670721, AA037886, AW842857, AA582680, AI673653, AA146775, AA224847, BF675536, AI660655, BF673270, AI801431, BF676429, AI620534, AA088704, AI091832, AA931185, AA225484, AA773893, BE172723,

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HLTFA02	85	638553	1 - 1005	15 - 1019	BE274374, BE299307, BG149449, AA149565, BG010137, BG010139, BG004980, AA169366, BE142714, BE812221, BF666656, BE812319, BE079717, BF751577, BF920681, BE939365, BF935231, BE909849, BE270211, BF927251, AB033092, and AC005539.
HISBE12	86	645267	1 - 1526	15 - 1540	AU134630, AU133566, AU138245, AU137852, BF574374, BE069938, BF107314, AV704855, AW963336, W23461, AW167802, AA563938, AI127313, AI539532, AA490669, AI874113, D82422, AA226521, AA226177, AI973210, AA386154, AW953092, W05488, AA347504, BF358693, C75173, T55946, AA358324, T52564, AA911206, BF106969, AA336586, AA347630, BF672805, AA452645, AW748957, R82314, T73366, BF369339, AW449322, AI546920, W21489, BF357935, AA366888, W76518, AA091839, BF574018, AA602826, AA362984, AI248642, AA058387, BE176207, BE835004, AA134033, T97372, R00339, R91853, AA004243, AA001805, T57235, T64521, BE090983, AA402341, AA099736, AX047362, AF226614, AF231121, AF215636, AK002038, AF215637, AF226613, AF231120, U76714, and AF147322.
HEBAE43	87	645268	1 - 610	15 - 624	AL521098, BF574602, BF673499, AL046863, BF316406, AW954218, BF977073,

					AV743764, AA452012, BE968758, BF104755, T67556, AI089430, AA622029, N51712, AW071881, AW025440, BF593629, AI860915, AI332399, BF248072, AI022266, AA994095, AW014246, AI074224, AI039833, AI288177, AI800953, AA780157, AA757265, AA627632, AA577687, AI092970, AL046862, AA946602, AI093731, AA179187, AI187002, BF055069, N62956, N75603, AA862619, BE898037, W94925, BF149174, AI348280, W95269, W00738, AW750555, W95270, AA292692, AA877282, T96893, AA725376, BF375148, BF372298, H70019, H93474, N95238, H92136, AA430388, W92196, N79859, AA860857, H85196, BF027974, H84661, AV743523, AA293150, AI253649, AI718728, N51801, AI524405, AI383237, AW273559, AI147145, AA352434, AA397987, H01797, H93473, H96838, AA327405, AW084140, W21067, R46856, BF377112, AA369355, H92137, AA421105, AA564314, T84413, W07127, T69552, AI582631, N63622, AI202094, N80289, BE142536, AI269378, AA976190, AW801132, AI660275, AA873627, BF354351, AA931541, AI017335, W05621, R46761, AA937741, AA353783, AI159785, AI288178, AA877001, AA996304, AI471911, AI141409, AA179188, BG151854, AA652715, AF161509, AC023055, AC023055, and AC023055.
HSBBC07	88	655007	1 - 632	15 - 646	AW957695, BG167431, BF667170, BG029651, AW629846, AW958886, BE566320, BF794745, AA187579, BF027457, AI870419, BF694672, BF245466, BF688231, BF184831, BE252410, AA375691, BG024470, BF701292, BF212001, AW173013, BF218360, BF666624, BF678487, W31735, AA894530, BF245493, N78134, AI379833, BF211069, BF029426, BF209151, BF695644, AI339336, BE565388, AI336165, AA383311, BE565724, H04478, BE546835, BE302428, AA296522, AA282901, N40501, W58050, BF665566, AW615315, BE897499, BE858489, BF696213, BE568842, AI660120, AW630758, BF668121, BF207942, BF700860, BF239325, R80104, AI697018, R70837, BE793058, D20722, AI418065, BF694034, BE538634, AI961630, AA126483, BF243257, AA946777, BF699997, AA358261, T31842, AA329615, BF211844, AA463798, AI372055, N31210, AI280166, AI281293, AI191797, AA918864, AI018252, AI804228, AA381668, AA115687, AA864307, AA948109, AA938579, AA932915, AA460235, AI123356, AI124079, AW754363, AA939258, AI201697, AW627534, AI476152, AI284979, AA806449, BE789077, BF239695, AA181956, AA633371, AA740178, AC011890, AB034206, and AL110115.
HL2AE73	89	655590	1 - 354	15 - 368	AW138862.
HE2OO57	90	656211	1 - 513	15 - 527	AA587990, AI355697, AW955630, AA328879, AW954613, W01389, AW999957, AW440737, BE069761, AA476616, AB019602, and AB019494.
HEEAR13	91	656288	1 - 381	15 - 395	R01466, R08954, AA422070, AI204649, and AK000032.
HFIYL13	92	656815	1 - 1074	15 - 1088	AL536911, AL527869, BF245609, BE270323, AA044869, BE893730, BE733057, BF242916, AL527868, AA306654, BE268826, BE875296, AU149506, BF747701,

					BF747559, BF688822, BF743065, AU153925, BG253085, BF768009, BE882028, AK022744, AK023347, and AK000318.
HLWBH14	93	658066	1 - 528	15 - 542	BE407162, AA188632, BF027256, BE253590, AI765126, BE408498, BF448597, BF057607, BF061666, AI167162, AI149274, AI122952, AI470212, AI740767, H96358, BF433481, AI240225, AI168425, BF979354, H13281, BF025838, W15511, R69088, AI240223, AA526820, R68610, R67855, R26131, AI760064, H87001, H92608, H95449, BF507644, AW951915, AA307149, BF439530, BF108898, BF475986, AK000044, and AL078599.
HATDW51	94	659283	1 - 866	15 - 880	BF060905, N40525, AI347028, AA017496, AW594216, AI040075, AI039421, AI458626, AA286737, AI241136, T76946, N26680, BE503575, AA287611, AW085657, AI039280, AA651849, BG057152, H81831, AA628122, AA806765, AW613553, AI445047, W95380, F13174, N46574, AI191989, AI191995, BF833339, AW662034, AV709642, AA659062, AI381740, BF745429, BF745855, AA620360, BF745430, BE816364, BE816359, AW795253, BE816357, BF743976, and AL135744.
HDPWQ69	95	659380	1 - 613	15 - 627	AA458518, and BF929403.
HNTBM67	96	659801	1 - 1057	15 - 1071	BE883765, AL134955, AA307472, AW960339, BF949791, M78461, AU130812, D56412, AW382561, AW382555, AW382532, AW382562, AW382559, AA223890, AI536122, AA826373, AW382553, AB014509, AB011159, D84346, and X80029.
HAIDY03	97	660532	1 - 525	15 - 539	AI061582, AV727485, BE709741, AV726610, AA334472, AW965472, H10895, AV728038, AV709174, T83167, BF836499, AA243549, AW368027, AW631441, AA487327, R94251, T82868, AA487348, AW663438, AW005046, BG251451, N76939, AW994061, H14927, AU148042, AA057050, BE779718, BF693286, AA249224, T87261, AI218622, AA506341, AB029008, and AK022433.
HDPDO12	98	661436	1 - 813	15 - 827	N30852, BF969528, BF025927, AA649075, BF315460, BF673758, BF726778, AA044232, AA425185, BF316493, BE260771, AI554723, BE047920, AI311315, AW029340, AI521451, AI805148, AI498798, AI087161, AA805252, AA405814, AI336402, BF680729, AI523953, AI275026, AI066488, AI863172, AA578642, AA417368, AA643942, AI024499, AA771979, AA889325, D63281, N30846, AW072029, AI032053, AW973064, AA101605, AA535747, AI299774, AA405813, W87448, AI191773, AA532648, H19832, AI268393, AW511845, AA745462, AA504479, AA722399, AV693812, BE777538, W87547, W31335, AI991341, AI004929, AW389246, BF247509, AA527348, AI033919, AW881217, AI343828, R12706, N92451, AA812821, AA991616, AW071205, AI092319, AA252648, AA055130, AI538413, AI014793, AA568733, AI000773, AA586676, AA228934, AA746136, AA872357, F32688, H19862, W20305, BE772781, AI037869, AA770508, AA476252, BF592563, F28098, BF060869, AA523469, N90683, H79071, AA094921, AA262932, R78468, H13151, AA937835, F19025, AA740856, BF591772, AW071810, AW607594, AA044371, AI870108, AW607628, BF438690, H04564,

					BE938328, AA055051, N41379, AW262852, AA504556, AA101604, AU121888, BE166026, BE855379, AW864878, R16450, AI859479, AW970118, AA515190, AA618357, AU147619, AI239641, N83997, H94808, AI032027, BE812158, BE166064, BF091989, AI738961, BF091992, AI084177, AW751676, BG099186, BF870262, AA210633, AW168939, AA299420, BG058939, BF765530, BE925027, C01735, BE171344, AV709813, AX014301, AK024167, and AX014305.
HAGBC45	99	661694	1 - 1524	15 - 1538	AI681538, AA399973, BE326518, BE504079, AA573265, AA401309, AI379315, AI215506, AW471197, AI377132, AI681742, AI332991, AW269403, AI377465, AA456746, AI685315, AI263428, N93369, AI374952, N32714, N23006, AA884641, AI218150, W24957, N95585, AA226426, AA773714, AI140445, H17820, AA253264, T86889, AW269001, T86888, AA226563, AI033243, AA041235, H17819, AA358475, R16622, R16564, W25386, AA883664, AA773710, R16637, AA040797, BF509086, AI927610, N89206, AI208762, AK027056, and AK026797.
HNTNT65	100	662513	1 - 466	15 - 480	AW390157, BE250250, AA984504, BF872063, BF376487, BF934232, BF923015, BF089975, AW294491, BG013986, BF733484, BE938102, BE719457, BE719459, BE935304, BE935305, AA385992, BE935592, BE907538, AI364918, BF334977, BF848924, AW296910, BF115534, AI831921, AI762572, BE764192, BG002605, BE764158, AX011645, and AF151799.
HTTAA50	101	665234	1 - 1156	15 - 1170	BF672232, BE537550, AV726990, AW450529, W32935, W35246, AA291282, AI240547, R16759, AV708580, AA053120, BF131640, T90562, AA436957, AW673770, BE348961, D79613, BF112026, D62474, BF795760, T90089, AI040785, AA496051, AI927287, AI935626, AI245410, AI151377, AA877741, BG152881, BF222016, R09207, AI913677, BE174769, AI027090, BE049632, AA991755, AA889277, BE327905, AI217584, BE222030, AI825249, AA765219, BF059450, BE645880, AA761487, AL050331, and AL023280.
HAGBX32	102	666416	1 - 625	15 - 639	H04905, W29095, H11833, AW875327, AF134640, AF100346, AC004125, and AJ272044.
HHTMM18	103	666429	1 - 531	15 - 545	AA258921, BG026982, BF056154, T11903, AB037838, and AL050333.
HHFGR08	104	667779	1 - 1565	15 - 1579	BE748748, BE748510, BG255761, AW393085, BF240527, AW976133, AV707941, AI742057, BF102537, BF241358, BE748448, AI264355, AW875250, BF242245, BE748211, BF243467, AW875242, BF242831, BF215321, AI435473, BF213944, BF213952, BF028653, BF243295, BF243838, BF214842, BF243749, AA676810, BF242687, BF242568, AI884446, BF031764, BF241173, BF215271, AW452347, BE043080, AI280708, AW152544, BF243754, AA284643, BF214962, R83315, AI687112, AI623742, BF215307, AW512889, AW594361, AA737033, N63887, BF242146, AI538659, BF239594, H60297, BG180852, R99166, BF214678, AA134487, BF215366,

					AW083596, H60298, H48469, AA290765, R50608, T23528, AI873862, N92031, R50519, AW875361, BF241309, and AA211082.
HHBEU19	105	668286	1 - 510	15 - 524	W00819, AW963996, AI949555, BF245063, AA377198, and AA249131.
HWBBB21	106	670586	1 - 699	15 - 713	AW468066, AW238267, BE618753, AW897644, R14231, AW897647, BE179313, BE963215, BF814967, AW872506, BE173335, BF912222, and AK000143.
HAIDX85	107	672653	1 - 2052	15 - 2066	AL534096, AL534095, BG259886, BF970703, BE304636, BE536920, AW973921, BE301321, AW386287, BF982614, BE818465, BE018698, BF314421, BE741216, BF726009, BE138864, BG116337, AW000899, AW630010, AI924067, AA114200, AA568911, H09030, AW613797, AI569625, W28817, AI218322, AI217373, AA256422, BE315044, BE742801, AA662710, AI338593, AV725885, W26670, H03838, BF374209, AA312912, H03839, BE810299, AA862597, BE810307, N46856, N39122, C16564, R18735, R11595, BF857926, BF920704, BF822773, AA147297, AA340634, BF954410, BE868860, BF949714, AA147186, AI444616, AI022477, T89971, AI444617, AI808006, and AK026744.
HMMAV06	108	675380	1 - 629	15 - 643	AU135561, AV752385, BG060175, AW378313, AW378316, BF680418, AB002347, AK026998, AL049843, and AK026948.
HISAM25	109	677920	1 - 779	15 - 793	BF531021, R55610, AA179088, AU132929, F07005, BF725066, AI143877, BF693602, AK023273, AX047351, AB040930, AC024167, and D45913.
HRODX93	110	678316	1 - 712	15 - 726	AC006262, AC024698, AC024698, AC024698, AC022273, AC023349, AC023349, and AC023349.
HLJDK82	111	678819	1 - 3245	15 - 3259	AL521457, AI051591, AL521456, BG028004, AV661958, BF981848, BG257469, BE560747, BF037795, BG261369, BF510976, BF791665, AW378643, AL134642, BE613309, AW960340, AI692896, AI952060, BF677984, BF349860, BF432744, BF676148, H93052, AA156070, W85861, BE072769, BE004809, BF830574, AA195128, AW401953, BF107422, AW272711, AA452951, BE858150, BE644932, AA307793, AA304943, AA773575, BF693391, AI936207, AA773916, BF132474, AW295959, BF834093, AI373149, AA182021, AA055577, BE315444, AW104431, AA767726, AV749526, AI215110, AI124008, AA186538, AW152132, AA037776, AI972932, AW468710, AI752572, AV724037, AI983223, N73564, N40159, AI002310, AA677490, R93506, AW168300, AW753567, BF349968, AI214625, AW268724, BF086970, AA306855, AI752573, AI074572, AW272230, AW977732, AA001953, BF130159, AA165681, AA004671, AW662398, AA182938, AA643741, AA580108, AA155986, AW386169, AI082391, Z44330, AA121127, AI214614, AA635553, BF246170, AA122425, AA773509, BE612719, AW083935, AV696709, AI979176, AA452813, AI435966, AW118902, AA620795, AL119024, AA613564, AA382161, AA758804, BF744099, AL121332, AI783502, AW969082, AW300568, AI086188, AI340942, BF000775, BE893817, AA827249, BF701522, T40456, AV748242, BF332048, AA620891,

					AW419327, T10382, BE162170, AA935555, BE708940, AI052475, AI470840, AW379031, AA195021, R09456, AW601974, AV747643, AW373197, AA001147, AW021736, BG002410, AA095034, AV681876, N57895, AI140739, AW515540, R09455, F05504, BE173039, AA676368, BE165820, AA169421, BE925935, AA355256, BE931730, AA628139, AI918650, AW835274, AL118829, BE708119, T40131, AV694828, AA307469, AA639473, AA909550, R93507, AW505311, R05284, T39176, T96058, D19735, BE881134, AI247324, AI784293, H93918, BE173078, BE814408, BF748924, AI032098, Z41685, R09454, BF890807, BE315206, AA337038, AI143688, BG115143, AA861575, BF818357, AW363634, BF377200, AW794051, AW362035, BF814980, AI248845, AA934532, BF082029, BE815786, AA932719, AW813872, BE165826, BE925596, BE082831, BE082832, BG254139, BF314301, AF226054, AC015651, and AF113221.
HCFMJ37	112	682668	1 - 592	15 - 606	R52491, H17763, AL038768, BF691687, AV717005, AV734854, AV728273, AL035739, BE748156, BF979733, AU118684, BF575231, BE568917, AA084554, AV718330, AV726438, H16532, BF904068, AI750581, AI903894, BF033632, BG104800, BE738971, R21494, BF246715, BE785069, AV717056, Z41981, BF983256, R13337, AA322574, AA448043, T26420, AA461375, AI903843, AI792383, AF161445, AF212245, AK021683, and AF151047.
HMWAP17	113	682949	1 - 639	15 - 653	AA156614, AI082082, AI086841, AI147047, AI185792, BG032133, BG034866, AW964839, BE740466, AI685906, AA569397, AI191694, AI188677, AI189282, AI022346, AL527990, AI128015, BG164811, AI160462, BF689154, AA151425, BE300105, BE206572, AI129363, AI572655, AI190802, AI192597, AI421638, AI123915, AA588200, AA632395, AI189252, AI190346, AI093266, AA985507, AA877464, AI092471, AA931075, AA812308, AA988393, AI141184, BE349219, AI079428, AI093935, N27456, AA599284, AI459518, AA621601, AI888940, N35806, N90875, AI039753, AA126032, AA826851, BG165764, AW337130, AI093326, AW338528, N90134, BE789089, AI573072, AI978985, F36547, AI264288, AW083207, AI268392, BE221316, W02208, AI868334, AA857962, AW769494, AI874277, AW591194, AA156917, AW511453, AA574010, AI953460, AA485449, H99139, AW793090, AA485617, AW194542, AA480004, AA482529, AA453453, AA738323, BG121838, AI936581, AI146899, BE219045, AA074444, AA417875, AI272974, H06706, AI357984, AI049922, AA143143, F30191, AA143382, AI872526, AI925798, H93348, BF204611, T56729, AA470878, T83669, AA989134, W32004, BF822183, BG251677, AW051161, AI192266, AW339303, AA669703, AI873894, H95625, AW051188, AA151424, AI932563, AA991593, C00453, T84534, AW078974, AW206415, AA857972, BG117198, AI611003, T83833, BF001688, BF812028, BG165138, AW008736, BE672775, BF380144, AA658204, AA341518, AR060388, and AF058807.

HMCFA76	114	684293	1 - 560	15 - 574	BF969528, BF315460, BF025927, BF673758, AA649075, BF726778, BE260771, BF680729, AA805252, BE047920, AI311315, AW029340, AI521451, AI805148, AA425185, AA643942, AI087161, AI336402, AA101605, AI554723, AI498798, BF316493, AI523953, AA405814, AI275026, N30852, AA578642, AI066488, AI863172, AA771979, AA417368, AI024499, AW973064, AA889325, AA504479, D63281, AI032053, N30846, AA527348, AW072029, AA535747, BF247509, AI299774, AI191773, AA044232, AA405813, W31335, W87547, W87448, AA532648, H19832, AA722399, AI268393, AW511845, BE777538, AV693812, AA745462, AA055130, AI991341, AI004929, H19862, AW071205, AA252648, R12706, AA586676, AW389246, AI033919, AW881217, AA812821, AI343828, N92451, AA991616, W20305, AA228934, AI092319, AI014793, AA568733, AI538413, AA746136, AI000773, AI037869, AA872357, AA476252, AA094921, F28098, F32688, BE772781, AA523469, AA770508, H79071, BF592563, AA937835, R78468, BF060869, N90683, AU121888, F19025, H04564, AA262932, AI870108, R16450, H13151, H94808, AA101604, BE938328, BF591772, AA740856, AW071810, AW607594, AA504556, AW607628, BF438690, AA055051, AW262852, AA618357, AW864878, BE166026, BE855379, N83997, AI859479, AW970118, AA515190, AI239641, AU147619, BE812158, AA210633, AI032027, AW168939, BE166064, BF091989, BF870262, AI738961, BF091992, AI084177, AW751676, AA299420, BG099186, BF765530, BG058939, BE925027, C01735, BE171344, AA373508, AV709813, AX014301, AK024167, and AX014305.
HTHGM28	115	684309	1 - 1973	15 - 1987	AL524312, AL522827, BG260938, AL516117, BE792575, AI922738, BE873250, BG180370, BF311244, BG121041, BG036096, AI742798, BG031508, AW473070, BG178428, BE621819, BE876480, AW965166, AL524313, AI521861, BG164176, BE207270, AU154596, AA156048, AW796242, AW605147, BE081689, AW608807, AI937084, AW385322, AU147492, AV716431, AU148219, BF197439, AW474818, AW071089, AW247207, BE301182, AW834827, BF997412, AI393092, BE220183, AW150166, BF698915, AW247815, AW129619, AA593405, AW439761, AW366702, BE167300, BF058546, AI191767, AU157014, AI827281, AA055259, AA082848, AW474734, AI274887, AW292560, AW292339, AI681022, AW937927, N71255, AA454912, AI754310, AA961126, AA454836, W01562, AA088679, AI050679, AI467791, N58730, BF851421, T30213, H79378, AA157459, N62405, BF754744, BE082261, AL138072, AA112191, AW105535, AW206734, AA055258, BE183938, AI187893, AI630182, Z40024, AU157710, AA759028, AA086241, BE835912, T81323, R01268, N72641, AA679367, T07142, BE061996, BF964279, H79267, H27407, AA972254, AA204677, BF986068, BF062635, BF798884, AA995340, AW237668, AW772066, AW900962, T81852, Z46058, AA557468, HZ8601, BE812021, BF353337, T32580, AI536616, AL044924, BF849656, R01382, BF212235, AI434054, BF743715, AW293484,

					BE826143, AI002409, AL138073, AW939242, AW978464, BE928649, BF879084, BF357736, BF948796, AA044699, AI370000, BG231907, BF744744, BE093552, BE833989, BF922103, D20569, BF911516, BF820096, BG001523, AW389488, AA501359, BF746233, AL390171, AK001725, AJ223830, AL031228, AB022537, AF100956, AF110520, AJ006026, and AC087217.
HHEDB45	116	685054	1 - 620	15 - 634	AI207821, BF952987, BF155610, AA102259, AW379923, AA301458, BE925010, AW889669, BF772647, BE696816, BF733180, AU160796, BF762963, AK001719, AF152961, AL135744, AC007528, and AK024072.
HTACX15	117	685191	1 - 995	15 - 1009	BE883093, BE884483, BG027520, H10439, AW955523, R52785, AA281828, T79895, R67193, AV730640, D61521, AV730776, Z19358, AA305743, H21747, AW062518, AW501215, N53853, BE974133, BF577121, AL136501, AK025606, AK022978, and AF131775.
HFIZN55	118	685340	1 - 701	15 - 715	W86347, BF432058, AW008475, AA446825, AI491957, W86348, AC002064, and AK024715.
HCE1U38	119	685495	1 - 2418	15 - 2432	AL537630, BE379378, AW953381, BE745060, BE408034, BG250739, BE731485, AV707754, BE730630, BG114419, BE394329, BF035312, BF341487, BF220298, BF791852, BF219748, AW409633, BE273198, AW793675, AW409746, BE673022, BE141458, AW365221, BE273114, AI888252, BF960994, AW793608, BE336870, AI963081, AW365985, AI719352, AW628991, AI870998, AA526056, AA824646, N40215, AI037847, AI554890, AW365950, AI598219, AI830693, W90606, AW365925, AA227444, AA732821, AI800413, AI817298, AA025450, AI127436, BE729822, AW190798, AI675827, BF215308, AI335265, AW605015, BF308910, AI890641, AW149481, W90283, AW087384, AI281445, AI289868, AA127060, BF826466, AA993770, AI205967, AI674727, AA565110, AW408017, AW438640, AW071077, AA126671, AI086531, AW407623, W67695, AA676533, BE677211, AI763067, AA486290, AA622632, AA125937, AA705101, BF508182, AA127033, AA489311, AI582947, AW237626, AA025895, AA992888, AA314447, W68154, AA075942, AA025449, BF840544, AI799186, BG057888, AI298301, AW117849, R18337, BF379757, R48988, AA354778, R42383, BF759488, R35325, AA262924, F12691, AI971065, F27343, T74957, AW779410, BE247290, AI358844, AA907111, F09227, R49398, BE828133, BG012833, AA526002, R92809, AI290093, R43689, AA055120, BF933629, R35011, AA055119, T99344, AA148960, F10300, AA092883, AA367228, AA127831, AA011292, AA807291, Z38701, AI471094, AW874232, Z42505, BE139605, AI418711, AI363914, AA127837, AA010856, AA148959, F11573, and T99554.
HNFIL36	120	685604	1 - 762	15 - 776	BF568200, BE900421, BF568961, AW291267, AI912687, AI568596, AW956329, AA725526, BE504463, AI298130, AI921203, AI367591, AI348687, AW295172, AI885246, AI521328, AW050798, AA456741, AW291380, BF438189, AA992499,

					AA988237, R68384, R48228, R96498, AI695492, R68589, R45494, AI928657, BF476567, BF591706, AW024061, AA376740, BG012296, and D63758.
HSKZB03	121	686533	1 - 1774	15 - 1788	BF038650, AW600316, BE875992, BG253891, AW731682, AW372313, BE878814, BF591262, BE880516, BE875882, AW601338, BE206056, AW601314, BE877211, AA704088, BE219547, AW068001, AA223294, AA463501, BE902880, W46285, BE547229, BE786476, AA825343, AW068149, AW068066, AA113396, BF984659, AI754129, AW166703, W46425, H97088, BF820322, AI400098, BF436533, AA463548, AA126474, AA373922, AW294872, AW601596, AA120990, AI906777, BE549833, AA506770, BE300315, W51857, AI650979, AA999931, AW673699, AW604817, BE875366, AI908075, AI908094, AA676408, AF098462, AF055460, AF035377, AB012664, AF031036, AF031035, AB030707, and AR091383.
HNTMZ26	122	688935	1 - 402	15 - 416	AL533776, BF238947, BF671575, BF307134, BE896826, BE615467, AA297354, AA451764, AA127134, AA451762, AW239455, H10448, BE296524, BE297034, BE299140, T78950, BE311846, BE299196, F06459, BE294911, BG251513, BE270310, BF791036, BG110633, BE792285, BF338838, BE880218, BF308716, AL513740, BF979464, BG121135, D31389, AA297420, BE266974, AA194682, AA296942, AA297421, BF725960, BF038786, BG030014, BE784543, AF169481, AR076172, and AF125533.
HHENC76	123	689978	1 - 356	15 - 370	H63787, AA348525, AW961852, AA317641, BG251796, AK026836, AP001714, AL138825, AP000104, AC009731, AC010605, and AC011248.
HHSGJ30	124	691490	1 - 691	15 - 705	N63401, N95690, T07930, R42490, F11129, R38167, Z38365, and AW896192.
HE8EQ09	125	695741	1 - 2105	15 - 2119	BE897106, BG109874, BE538275, AV721438, BF969051, AW249865, BE312617, AW968992, AI091273, BF530606, AV702380, AV717337, BF726753, BE079600, BE894114, AW958900, AA313317, BF432282, AV726680, AA854119, BG104855, AA479605, BF666506, AA528178, AI741720, AI949241, W37670, AI041810, AA427616, BF060652, AI678997, AI421428, AI376945, BE169352, AI682011, BF593666, AI018757, AW024459, BF665336, AI805755, BE865716, BF541044, BF212134, AA115177, AI088836, AA843850, AV723775, AW964454, AA397898, W55938, AA164656, AI817629, AA148013, BF697773, AI419386, BF196461, AW340310, AI031676, AW166105, AI653966, N41633, AA833840, AW513611, AA164657, W58241, AW057816, BF214591, AI220471, AA417296, W58242, AA576267, N29628, AI333667, AI446780, AA416560, AI040265, BF732377, AA947478, AW517173, AA255918, AW392222, AW003884, AI051395, AI304937, AI347635, AA988744, AW020149, AA772434, AW130885, BE709243, AA713478, AA903306, AI023956, AA470629, N54515, AA974783, AA393599, AA465651, AV726981, AI081927, H07998, AI033986, AV727708, BE827568, AI344527, AA437350, W37530, BF955268, AA584287, AI571215, AA459425, AI493440, N51885, N48016, N35368, AV725588, AI159809, AI573012,

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HJKSC77	126	698634	1 - 486	15 - 500	BF207871, BF672390, BF210595, BF667487, AW958198, BE879682, BE958210, BF213084, AV714149, BE781669, BE788855, BE904974, AL529245, AA165446, BF694328, AA167433, AA446795, BE567812, AV696408, AV721198, AA167074, BE566185, BE886046, BF574268, BF218193, BF212797, BF132353, BE565691, AV692206, BF211500, BE613870, BF690906, BF668915, BF217003, BF208449, BE565391, BE567899, BF241795, BF217280, BG170232, BE567085, AA292252, BF211073, BG170146, BF103549, BF574941, N36033, BF698746, BF247359, BE926436, BF244908, BE565626, BF184621, BF029660, BF239234, BF029339, BF530881, AW604559, BF754702, AI750420, BF672085, BE567889, AV728059, AV729106, BE865963, BF239697, AW630584, BF693944, BE865942, BF696659, BF677397, BF669008, BF217310, BF217631, AA334848, AA079814, AA344673, BF244900, R31063, N75132, BF208918, BF215923, N40739, BF086448, AA166930, BE614475, W37976, BF240004, AA173470, BF028978, AW392722, AA329536, AA005078, BF027765, AA253190, AA460569, BF738903, BF208304, R58189, BF851236, AA377054, BE567327, W21391, BF993950, AW978143, BF849551, W47186, BF208334, BF208981, BF245946, AW960560, BF851329, BF216171, BF696911, AA909011, BF695321, AI435845, BF002030, AW510857, AI435369, AA304600, AW466951, AI123581, AI379585, BE565284, BE184246, AI379067, W37757, BE147734, AI305828, and AF220193.
HDABD32	127	699216	1 - 459	15 - 473	BE900337, BE903374, BE900986, AA282606, BF814200, and AK023151.
HWACC64	128	702658	1 - 758	15 - 772	
HMWIW46	129	703503	1 - 1437	15 - 1451	AW964211, AV715723, AI133171, BF056982, BE256492, BG179131, BF112079, AI344307, BE278346, AI002167, AW575319, AI191619, AI762132, BE326361, AA279101, BE278358, AV716566, BF939523, AA548744, BE220654, AI338615,

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HSDIJ72	130	705030	1 - 634	15 - 648	AA034056, AV700319, AV700909, AA033868, W94349, AA827892, AI874315, AI093264, AW080626, AW974315, AI090146, BE646652, AA658056, AW328176, AA135804, AA496546, AA524121, AA411710, AI559584, N26793, AW614867, N32251, AW138477, AU149509, BF206691, AA654002, W95497, AA777148, AI026045, AA974245, AA401911, W95584, AI948932, AW027666, AA765907, AA032272, AW204082, AA078960, AA834423, AI948922, AI248636, AI814115, AI214334, AA078862, AI203938, AW953690, AI921902, AA694134, AW004623, AA062740, AI040594, AA644260, BE790426, BG106683, AI277243, AA343039, AA523862, BF914322, BF340988, AA366536, AW085486, AA406088, AW886791, AA513668, BF311155, AA247868, AA429963, D20862, AI000285, N35265, AI193674, AI890372, AW974314, BG106290, BF821760, BE408029, AW804773, AW934973, AW629655, AL080249, and AK022745.
HSLGO34	131	706987	1 - 511	15 - 525	H14987, H12917, and AA035197.
HTOJF39	132	707266	1 - 1423	15 - 1437	BE621745, BG164387, BF574824, AL045714, BF672339, AW968371, AI762887, BF589414, AA465412, AI927679, BE644646, N79630, AW131135, AI802356, N63954, AW052111, AA688055, BE049217, AI222346, AW131189, AA194362, AA455696, AA814052, AW151362, AA810129, AA417791, BF576898, AA417695, R30902, AA453295, BF693456, BE827797, BE714257, AI825696, BE714293, BE714247, BE714219, and AC004990.

HPDEF35	133	707398	1 - 452	15 - 466	AA367210, BG032330, BF218504, BF247068, BE549484, BE738862, AV735508, AV737947, AV761865, AV758973, AW609720, BG119702, AA082767, BE884717, BE254128, BE409572, AL533384, BF692789, N88831, R23418, and AF125096.
HFIAW95	134	707878	1 - 558	15 - 572	AI209130, AI125408, AA868860, AI992321, AA047463, AI968499, AA411900, AA047397, AI241928, AA412094, AL133068, AK000033, and AL022328.
HMEIU36	135	708053	1 - 1062	15 - 1076	AI377407, AW973933, AU159464, AI591053, AI140794, AA085176, AA568840, AW059669, BE328386, AU142080, BF242387, AA085250, AL533715, AL525916, BE563312, AF036035, U90094, U73167, and AF040710.
HHEDM89	136	708177	1 - 699	15 - 713	AA599042, AL109865, and AL136133.
HKABW60	137	709347	1 - 766	15 - 780	AW410841, BE779375, BE892790, BF220111, BE251015, AV690387, BE780842, BE910652, AU129014, BE392799, BE777827, BE960806, AA306541, AA488585, BF950625, AA382085, BE295732, AL518759, BF037466, Z28940, AL524496, AL524495, AL518758, BE552293, BF000272, BE048523, AW797906, BE044002, AI990527, AW614747, AK001455, AJ006291, and AL163279.
HWLFB40	138	710542	1 - 615	15 - 629	AU139304, BE279067, AW842140, BG179422, BE391303, BE275569, BG252992, AW807017, BE409854, and AK002182.
HDTDW40	139	710974	1 - 397	15 - 411	AL528775, BE142925, BE142928, AW847734, AW847738, BG256636, AV650935, AW847732, BF935776, BE143004, AW749636, AI907806, AW752591, AW847801, AW847931, AK026928, AB037835, AC007404, and AK001513.
HEAAK34	140	711111	1 - 943	15 - 957	BE541855, AV716189, BF676470, BF906385, H16878, R56761, Z44727, H16267, BF931516, BF931560, AA663589, BF756845, T95749, AA834548, BF154552, H09671, AA809486, R91239, N50504, and AF161420.
HLWAH41	141	711706	1 - 881	15 - 895	R98276, BG011064, BG004978, T95945, W33061, AL136139, AC012558, AC000047, AL109935, AL136298, and AL365505.
HHSFI89	142	712570	1 - 765	15 - 779	BE010994, BF373745, BF327232, BF837452, BE086177, BF891340, BF989358, AI143465, BF877014, BF988288, BF592627, BF359465, and AW894924.
HSAVI33	143	714693	1 - 1561	15 - 1575	BG104258, BE798074, BG258223, BE887659, BE386155, BF125405, BE795610, BG029685, BG109393, BE675497, BF726957, N45533, AW469532, N28230, N25915, AW269727, AI089440, AI285952, AW748001, AA160294, AI377089, AW418733, AA937876, AI305151, AI220584, AW166442, AI582936, AA809358, AA314425, AV736878, AI339629, T16389, AV736541, AI221760, AA149870, AI288351, AW402220, AI400972, N42157, N33119, AA834035, H97523, R43925, H11078, AA160231, AA033775, AA115316, AV743890, AI373714, N48680, AA149815, AV748694, AW351448, H56181, R15111, AA033774, H56398, T08901, AW181998, BE827048, AA742663, AA830598, AW516481, AA749049, N56533, AI193709, BF987116, BE410460, AW086170, AI597612, BE465550, AI457804, AI214687, AI923937, H98583, AA975955, AW005216, AA092044, AW197792, AA889532, AA133171, AW629303,

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HMJAX17	144	715359	1 - 708	15 - 722	BG261392, BF752467, AA194257, AW511409, AI912611, AI350842, AI497969, AI991928, BG109534, AI061156, AA744999, D53392, BF349631, AI680322, H11244, H07921, AI697635, T07017, AW367919, H11599, BF514837, AI610452, BF516523, AI909924, BF844285, AW151974, BG113493, AI866469, AL043168, AI872423, AI440238, AI866465, BG164558, AI539260, AI859991, AI860003, AI366900, BF525578, BG029667, AI433157, BG252929, AW151136, AI539771, AL037454, AI538850, BE897632, BF796402, AI537677, AI494201, AI500659, AI815232, AI801325, AI500523, AI582932, AI923989, AI284517, AI500706, BG166654, AI491776, AI445237, AW151138, AI670009, AI889189, AI521560, AI500662, AI284509, AW172723, AI440263, AI889168, AI927233, AI866573, AI633493, AI434256, AI805769, AI888661, AI284513, AI888118, AL036923, AI436429, AI889147, AI371228, AI440252, AI866786, AI804515, AI610557, AI690946, AI887499, AI805774, BG110517, AI815239, AI890507, AW074057, AI554821, AA480074, AI828583, BF338002, BG116926, BG261116, AI432030, AW858243, AI801152, BE878725, AW151132, AL042365, BF970652, AL045500, AI702073, AI648454, BE886728, BF766529, AI702065, AL119791, AI890907, AI698391, AL080011, BE885490, AI354998, AI473536, AL515195, AL046595, AI371251, AI866510, BE908744, BG257535, AL514579, AI923046, AI434242, BF795712, AI581033, BG170937, AI538885, AI242736, AI671642, AW151131, AL119399, BG255903, AL513913, BF811804, AL036705, BF037001, AI569637, AI440260, AL047100, BF814450, AI804505, AI648567, AI561170, AW022093, BF812961, BG178669, AI432644, AW089275, AI866472, AI469764, AI633125, BE883591, BF812438, AW152182, AI887775, AW075667, AI696829, AI590043, AI289791, AI926593, AI345010, AI818353, AI539800, AI582912, AV727264, AI687362, AI500714, AL042377, AI285439, BG033723, AI884318, AI355779, AI623736, AI491710, AI431307, AI918408, AL047422, AI815237, AI567971, AW169604, AI961589, AI431316, BE786043, AI828574, AI539781, AI539707, AI885949, AW089557, AI559957, AI285419, AI500061, AI521571, AI432666, BF982540, AI469775, AL515033, AI866581, AI619502, BG109553, AI567953, AI815150, AI446495, AI355277, AI867068, AI915291, AI225248, BE891834, BG029053, AI358701, AW050850, AI698352, BF812960, AL042544, AW118353, BG113712, AI536638, AL514511, AW192701, BE048061, AL513979, AL079741, AW149925, BF812963, AI433976, AA641818, AI560184, AI499463, BF680133, AI628850, AW198090, AI916419, AI610362, AW081036, AL042572, AL513743, AI440239, AL037030, BF727352, BF814527, AL514557, BE908107, BE877142,

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HLJDZ45	145	717449	1 - 836	15 - 850	BF057682, BE551358, AI870472, BE348347, BE220620, N92013, AA481286, AA235512, D59403, W88874, AI167596, AU137366, R10048, R49500, D31111, D31113, D80100, AA236698, BF916715, AU123868, AL134153, AW392669, AL134132, AF155112, and

					AK001994.
HAHBC57	146	718574	1 - 467	15 - 481	AL518503, BE794141, BE246462, Z25363, BE246431, BE244577, BE393376, BE378295, BF355272, BF761359, and AC010271.
HLYDR60	147	718768	1 - 816	15 - 830	BE794685, BF685787, BE559983, BF685796, BE901125, BF307363, W73305, BG032061, BE873880, BE908758, BE884244, BE383845, BF797375, BF685559, BE728296, AW247236, AW131606, BE743302, AI339295, BG250395, BF678238, BG025457, BE728684, BF945968, BG027834, W51974, AW247847, AW966049, BE222587, AW027873, AV721989, AV721557, AW675648, W73040, W42520, AI817056, AW300280, AA121659, BF593810, AA365379, AA134508, AA524058, AA412645, AI026068, BF740089, AI480061, W16993, AA479840, BE904614, AI754885, BE834332, AI352460, BF693306, BE502119, AI363176, AA327589, BF108596, AA779872, AW673295, AA130538, AW025075, BF926042, AI022138, AA580472, AA379467, BE897396, AI300897, AI361310, AI338260, AI167748, AA535710, AI355996, BF196715, AI421227, AI797313, AA479718, AA536001, AA962145, AI085885, AI220550, AA373842, W42443, BE048034, AI335751, AA364113, AI312029, AA719318, AA412522, AV709718, W27857, AA719209, AA471180, AI309990, BF575516, AV706626, AI439502, AA215620, BG178778, W48677, BE699918, AW438416, AW015615, H38544, AA733051, AW963938, AA626066, AI648361, AA852416, AA770281, F35909, AA747411, AI818184, AA094707, AI263330, AW009191, AA215438, AA996110, AI241132, AI906614, BE832963, AW075282, BE170593, AF151888, and AL121938.
HCHMQ09	148	719977	1 - 455	15 - 469	BE613615, AK025890, AK025426, and AB052134.
HADMD75	149	720237	1 - 473	15 - 487	H29006, AA533117, AW409667, AI341147, AI681129, AI433410, AI955317, BF058231, AW341107, AU154665, AI885266, AI027623, AI692534, BF061372, AI808909, AA099037, AA778251, AA923181, BF222564, AI276678, AW474492, AU160729, AI986154, AW135263, AW968197, AI420387, H09118, AA659407, AI347168, AA404602, AA905366, AA868124, AV722317, H11272, BE300278, AA503263, AW137535, AA365338, AA402925, AA404732, AI675497, AA468344, AA405418, AF116574, AB014534, AK024064, and AF116573.
HKADW47	150	720269	1 - 684	15 - 698	AW502825, AL133572, and AB031230.
HFAUL30	151	721084	1 - 598	15 - 612	BF237693, BF237493, BE910607, AI432454, AW081785, AI436367, BF107426, AI191303, H27059, AI797479, AI188727, AI554783, AW970445, AA513753, AI090223, AI833007, AI886832, AA927473, BF764960, AA400632, F26406, AI148002, AA676886, AI142293, AA740345, AI815728, AW955899, AA536076, R07547, BE408046, BE276764, AA400317, BF944449, AI336523, BF025828, AA978356, AI017725, AA468753, AA639692, AV701120, BE615920, R07494, AI128273, AA724081, N41692, BF378717,

					AI879456, AI500369, AA252085, AA368986, AW368694, U75998, AW363134, BE695889, AA633704, AI815926, AA947905, AA199605, AA838338, AA707248, AA931186, AA670492, AA811357, AF202331, AW225341, AA542849, AA353038, BF978324, AF261688, and AC007400.
HKADD23	152	721126	1 - 632	15 - 646	BF315291, BE267287, BF315497, BE409386, BE727973, BE547473, BE254803, BE903798, AW958022, BF211629, AV742567, BF030620, BF129983, AW161511, BE886469, AA156149, BF242212, AA461616, BG167446, R20826, BE314226, BG253099, AI738546, T32235, AW993447, AA318338, R20384, AW957658, AV711296, BG110799, BG105200, BF509227, BF058787, Z45686, AA453377, AA328523, BF105125, R14248, AA075653, H10803, T30405, AW027919, AA482042, BE159472, BE159566, N55717, AA453972, AV712723, D58774, AI952258, AA453279, R60405, AA902471, BF208352, AW009749, BE904453, BE080502, AA461443, AW248974, AA236036, BF958143, BF229761, BG000176, BE699400, W58220, BF447253, AI088211, AV714273, AW768492, AF151826, AK025884, AF037601, and AL137283.
HE8MO09	153	721141	1 - 508	15 - 522	H23031, AA331581, BF366206, AA332819, AW938036, AL352979, AL356020, and AF045022.
HE8FL67	154	721418	1 - 579	15 - 593	BF795551, AV750730, AU127443, AW504749, BG119102, BE392473, BE540551, BG177251, BE018501, AU124097, BF589465, AI000771, AW613130, AA860505, AI637664, AA385917, AA884192, AA810287, AK022818, and AK022558.
HEOOA49	155	722648	1 - 587	15 - 601	R15032, AL534035, and AL536176.
HMSJH49	156	722943	1 - 588	15 - 602	H85811, AW803024, R85057, BE260893, BF919286, BF897158, BF762192, BF762184, AA078293, BF910909, BF326115, BF379108, BF316947, BF935452, BF999044, BF814195, BF822246, BF904758, BF985732, BF919287, BF814194, BF897159, AW800319, AW800296, BF326439, N43800, AF208291, AF207702, AC073184, AF170301, AF273680, AF208292, AF170302, AF144573, and AF077659.
HARAX45	157	723491	1 - 1318	15 - 1332	AA057431, AW960708, N32151, AI125765, AA436463, N36198, AI082017, AA047763, AI806698, N24164, N24756, N22835, AI092759, AA318287, N31576, AI216856, AI082301, AA015986, AA054280, AA609296, W96296, AA436511, N72140, W00409, AA490273, AA490373, AX032551, AX032553, and AF071787.
HDTES50	158	724196	1 - 423	15 - 437	AW340512, AI807894, AW963850, BE885860, BG105462, AW082409, BF351584, AW054749, BF508549, BF508665, AW593064, BF365625, BF365626, R94399, AC008772, and AC025442.
HKGBC30	159	724352	1 - 661	15 - 675	BG035611, BG035535, BG166365, BG177010, BG178383, BE748164, BF031940, BF576496, BF667259, AW957446, BF970907, BF969397, BE737557, AA195158, BG029795, BF989378, BE737837, AA243408, BF672780, W42956, BE784012, D79834, D79740, BF742804, AA456700, AV688175, AV692424, AI337976, BG122569, AA456532, W78894, AA397777, AA242916, AA373082, H79467, R80629, BF516139,

					D79679, BF131434, BE772150, AA304747, AW846336, AW375604, AI961425, AW959662, BF036652, AA160349, AA195029, AW375609, AW375470, AI826719, BG113642, AW751979, BF909045, W25422, AA159869, AI078789, BG251904, BF909852, BE645639, BF909048, BF908167, BE738443, H79246, AI279715, W47528, AA731913, AA723821, AI271712, W84668, AI274822, AI276459, and AA478098.
HKIXO37	160	724432	1 - 486	15 - 500	AA258991, AA287202, AA148138, BF513439, H44277, BE873001, AA134264, AA459315, BE244273, AW294863, AW798207, AA278370, AI566279, AW968424, AA278138, AA769400, AW968318, AA742355, and AK027028.
HTLFI39	161	724950	1 - 571	15 - 585	BF753854, AF053356, and AF174604.
HEQBJ81	162	725228	1 - 1417	15 - 1431	AL526015, BE902251, AL535577, BG119712, BF795162, AI972730, AI670995, BE385522, BE781482, BE867114, AI675678, AA399402, BF131361, AL525964, AI936663, AI805772, AW963715, AW005423, AI884407, AW083827, AW954601, BF196259, AU131935, AI933357, BE967468, AI277095, AW276015, AA447620, AI697985, AI912309, AA233630, AA069925, AA448020, AI192598, AA947274, BF511366, AI201913, AW675389, AA422152, AA448454, AU076532, AI199457, BE770857, AI222722, BE221191, AI933308, AI285314, AW299680, AI933319, AA009713, AI039091, AA694501, AA594398, AL535578, AA156783, BE549586, AA599751, H80269, AA070017, AW276004, C02912, AI498681, AI273260, BF448335, BF755788, AA938654, AA398362, AI564858, AW081385, H80365, BF433555, W23160, AI433696, AA635653, H09156, AW611985, AW512416, AI003286, AU153586, AI338001, AA350419, AA298504, BF885316, AA827591, AA809864, AA460451, R40317, AA297589, AA463393, AI261957, AI264460, AA297851, AA991627, AW952374, AI122589, AA809865, AA100151, AA338738, R44669, R13235, AA352547, BF476212, AA555202, AA325687, R41569, AW162831, AI940474, H09213, AI940457, AA082600, AI940491, BF932644, AI940480, AA302916, AI267918, AW952768, BF001386, AI473741, AW779351, C03526, R19419, AA009823, AI352026, AW301607, AI940485, AW379612, AA156852, BF340250, BF062888, AI189426, R36750, AW875742, R15147, BF922047, AW875677, AW875689, AA666086, AW162723, AA340305, AW387133, AA471272, AW373384, BF247476, AA091173, AL040390, AA678873, AA987875, AI923061, AI383804, AI360195, BG257545, BE011885, AI888956, AA437293, BE966404, BF796402, BG033906, AF040707, AF131207, AF040708, AC002481, Z66370, AK026603, AF254119, Z48796, A49118, AL137555, AK025549, AR008521, X69711, AL133093, AK027114, AL137539, AF192401, AF192402, and AF217967.
HAGES18	163	725655	1 - 654	15 - 668	BF966458, BF671990, BF692987, BF672825, BF126207, BF672860, BE278557, BF695073, BF576696, BF575966, BF672017, BF670459, BF576056, BF672797, BF672709, BF790889, BF671326, BF671275, BE971388, BF671415, BF671804,

					BF672665, BF574253, BF574870, BF574911, BF672284, BF673062, BF574843, BF695099, BF576341, BF671520, BF672453, BF672612, BF673018, BF694661, BF695215, BF670363, BF574724, BF575245, BF694964, BF575210, BF575621, BF575611, BF672159, BF574983, BF577006, BF670423, BF672647, BF575741, BF575626, BF670636, BF576075, BF790444, BF672379, BF672700, BF671585, BF672234, BF575200, BF575647, BF575471, BF672014, BF577028, BF693656, BF576598, BF694869, BF671617, BF671443, BF671115, BE018510, BF693272, BF576176, BF575630, BF672859, AL533461, BF790867, BF576262, BF671796, BF576923, BF670282, BF789957, BF574159, BF670829, BF575971, BF574636, BF670491, BE733819, BF670790, BF790838, BE969918, BF574822, BF207645, BF673114, BF670591, BF575253, AA196936, BF790495, BF208011, BF105281, BF576728, BF671430, BF126405, BE568532, BF671862, BF576326, BE866564, BF576606, BE564325, BF672465, BE967564, BF577181, BF673070, BF575476, BF576128, BF692821, BF670926, BE564826, BE732617, AL533199, BF790734, BF694889, BF692913, BF670649, BF789989, BE380150, T80234, BF694559, BF576530, BE568846, BF208829, BF791128, BF694585, BF695292, BF570751, BE866290, BF574539, BF693087, BF031510, BF695222, BF694370, BF576549, BF029400, BF575370, AA193133, BF694481, BF693258, BE537668, BF693691, BF693398, AV754040, BF825169, BF673925, C15922, AV729281, BF574550, BF693473, W68781, BF574875, BF692911, BF693339, AV725869, AA100508, BF693401, BF671250, AA341035, AA111869, W27023, AA196311, BF791087, BF670819, AA192599, BF575764, BF574531, BF789918, BF692868, AA329773, BF695212, AA307342, BF790642, BF126139, BG109465, BF033622, BF034364, BE080952, BF130487, N55351, BF574105, BF671234, W19258, BE080786, AA088462, W68688, BE763621, BF693360, T71810, AA081840, AV702687, BF749150, AA303835, BF790177, W48742, BF952838, AW995369, AA131123, BF692768, N31239, T81226, BF965794, BG114654, N23613, AA371486, BF209625, AV747236, BF790651, BF699457, BE566199, BF671762, BF670941, BE259158, R96423, BE080807, AA076201, BG168165, C14200, H96142, BF671114, BE694253, N77358, BF725117, BE007854, AW995367, BF570468, BF693136, BE738965, BE379711, BF687772, BF576739, BF573934, BF245036, BF031142, BE873739, BF346570, AW897156, BF574980, W47036, AA021021, BF672048, BE868496, AF125103, AF077050, AF132048, AF177332, AB049853, AF087901, AR028522, AJ251385, AJ242963, AF051335, AJ251384, AB040463, AB015639, AF148538, AF132047, AF320999, AJ251383, AB020693, AB040462, AF148537, AJ242962, AF132046, AF132045, AJ242961, AR028524, and AA192565.
HHSGV20	164	725822	1 - 912	15 - 926	BE222636, AI961104, BF436334, AI884733, AW246570, AW028772, AA888944, AI937479, BF436910, AI148511, R17483, AI986047, BE645600, BF958197, AI670139,

					BF115307, AI651793, AW028535, AI972738, AI026845, AI797316, AA932228, AI818634, AI200838, AI767264, AI885011, AI651316, AW294043, AA351410, AI864915, AW956099, AW016371, D51213, R52574, AA304817, BG055746, AA325568, R42830, BE503876, AI871615, AA989336, AI637493, AA890222, AA351409, BF744896, BE622127, AA338951, R40721, R43297, R52526, T46991, BE622940, AA932798, BE504323, C14248, W52698, Z25285, BE670403, AW953345, R61467, AA365030, T46990, AA323378, C14217, AW304747, AI198190, AA757552, AI765583, AA716499, AA757803, AW952645, AI439830, AI491767, AI869586, AI336473, AI310488, AI368168, AI493465, AI343940, AI346860, AI189795, AB025186, and U51204.
HNECD53	165	727386	1 - 785	15 - 799	AL520253, BG113028, BE730840, AI692661, AI990927, AW576597, AI962731, AA151527, BF434287, BE551582, AA116092, BF063262, AA131002, BE466704, AI476250, AA626414, AL520254, BF223994, BF222968, AI638682, AI916526, BE048577, AA149442, AI686680, AI935593, AI201967, AA102766, AI963503, AW081527, AA286819, AA152283, AW273367, AI417694, AA150292, AI568034, AI624896, AI004236, AI446535, AI951797, AA625892, AA152451, AA101789, AA749172, AA116091, F24340, AI766979, BF445475, BE925564, AW958934, AI266738, AA384642, AA101790, AA853900, F35702, AW594388, AW137428, AI948855, AA897651, AI950455, BF917243, AW771964, BE163846, BE163852, BE163816, BE163659, AL533758, BE393501, AI089160, AA669642, AA488151, and AK022498.
HRAAO53	166	728064	1 - 549	15 - 563	BG180300, R14303, BG180366, Z45229, AV716542, AA827229, and AW977731.
HDPGD34	167	728098	1 - 850	15 - 864	AU133208, BG255170, BF346276, BE396319, BE719458, BF326883, AW499756, AI929577, BF343013, AA331962, AW501305, BE072706, AW501302, BF365052, C18077, BF335090, BF335074, BF335077, BF335088, BF335075, BF335078, BE072813, BF335091, BE926894, AV748888, BF910717, BF373903, AW996974, BF795573, BF476128, BF476077, BF575671, BF743862, BE245226, AK001718, AL080250, and AL162046.
HLYBU12	168	728763	1 - 757	15 - 771	AV711357, AA024565, AA454227, AW450093, AA426141, AL515137, W86795, BE894727, W87294, N92155, N46587, AA025318, W03644, N58008, BE893334, BF589668, AV726302, AA453645, AA345255, AW593927, BE672946, AA812729, AI915387, AL110420, AW664342, AA122344, AW770845, BE328340, AI743045, AI869288, AW771192, AI017204, R38111, AW974592, AA174165, BE768909, BF967003, F09335, BE788737, AW263305, H63885, BE622642, AA454228, BE088462, BF436458, AW304194, AA768532, AI138879, AI860270, AI374771, AW514315, AA811368, AW451628, AA972721, AA668674, AI627681, AI138747, AF113539, AK027258, AL136504, AF225981, and AF181121.
HEONV59	169	728861	1 - 963	15 - 977	
HCWHX5	170	728903	1 - 431	15 - 445	AC034291.

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HE8DF23	171	730794	1 - 1567	15 - 1581	AI300116, BE296377, BG032463, AA908994, AI797802, AI383991, AI769393, AI377409, AI679192, W20029, AI954824, AW003222, AA423876, AI005307, AA885021, AA423838, AI590304, AA831018, AA877137, BF056260, N20924, AA830153, BF110964, AA889975, AA749009, AA261973, AI290190, AL042957, AI274997, AI761710, AI302355, AW104248, W58202, W58311, AI096394, AW015642, AA595487, BE258855, AA907686, H21773, AI632773, H21774, N91489, AA757789, AW242726, AA115494, AL042260, AI872868, AW576488, BE090133, and AL513865.
HOECO53	172	730924	1 - 426	15 - 440	H46855, AA522937, BG168461, BG166970, BG034696, BG030159, BF971167, BF968107, AW327347, AI878995, BF382241, AW161124, AV744127, BF381820, BF029990, AA285085, W31692, BG031029, BG112033, BF030176, AA420715, AA305038, AA479559, AV735500, W51849, BF213193, BG113339, AA428036, AV710467, AA315675, BF793677, BF683278, BG163707, AL535052, BG028333, AA310999, BE909361, BF700007, BF977675, BE256879, AW583586, BF103812, BF183860, BG114558, BF541112, BF132139, BF184956, N98945, H49687, BF664599, BF827777, BF674463, AA121183, H50194, BF571367, BF032082, AI767547, H42256, AA298525, BE878076, BE047828, W79179, BE546966, BF213270, R96272, BF130738, AA136783, BF339338, H44205, T53397, BE879546, AA296778, AV747127, BF677752, AW083308, AA203752, AW405858, BF665269, AW081643, AW130434, AW131295, AW131303, AA479535, AI955122, AW301038, H51483, AA416837, AA082396, BE744389, T54405, BF977978, BF887309, BF887298, BF540976, BE789337, AI672869, AI422293, BE855465, AA633512, AI028278, AI351044, AI281194, AI560983, BF696827, BG149478, AA296829, BE788872, R50013, AA843796, BF084344, AI138248, AA477638, AI097413, BF381764, BE936616, C02084, R47812, AA516519, H49594, AA496596, AA563931, BF879230, R82586, AI056143, BF676451, N44055, R66527, AA297953, AW055043, BF879163, BF821422, C02981, BF218736, AA046382, AA910282, H45625, H45628, AA813514, BE220255, AI912595, AI301158, BF870347, R28130, BF477346, AI418360, BF883168, AA284914, BE826706, AA416688, AA705272, AA722082, F25958, AA055293, AI042242, AI348253, AI879494, W52111, BE826711, AI346869, AI298347, AI302881, BF700730, BF344686, T52195, BG026325, BF879420, AW799874, AI184088, AA420761, AW236255, AI814753, AA976549, W74425, BF247545, AA862704, AW438834, Z32877, AI073646, AA719502, BF792335, AA580072, AA402862, BE834154, AI718735, R66528, W04524, AV735518, F30163, AA428813, AI301336, AA496548, BF879226, AA992419, AI339223, H46769, AI866642, AA873692, AI394058, AI338648, AI264131, H50195, H42257, H44206, AX014159, and AF161372.
HDFAB91	173	731889	1 - 1381	15 - 1395	BF529864, BE901775, AI589804, BE901042, AI199313, AI636756, BF061809, AI337174,

					AW003271, AL537767, AI363474, AI638061, BE855432, BF475260, AI653749, BE671333, BG056706, AI567434, AW235236, BF928391, R45347, BG055696, AA478099, R40001, BE551927, BF056286, AW138571, AI650862, AI202114, AI014634, AV725034, AW956241, AI263752, BF061875, T85446, AW071773, AA931156, R20686, AI220130, F11755, AA398006, T85350, T65494, Z43537, AW235434, R18850, BF949034, BF948468, BG056329, BF337317, BF530877, AA757698, BF957193, AI919390, BF963555, F09414, T65418, BE698921, BF528815, R72245, AA436146, T07423, BF957139, AW103587, AW966245, C20849, T08857, AI928679, AF177909, AB046649, AF190699, AF190991, AC008746, and AC008746.
HWLER32	174	732236	1 - 762	15 - 776	AV727577, AV727747, AV751004, BE466427, N72652, R11459, H93882, and H56112.
HNFJE71	175	732600	1 - 525	15 - 539	BG177946, AA355750, and AL162742.
HOUHA56	176	732902	1 - 660	15 - 674	R59681, BE739214, AV653666, F11197, AL119365, Y11395, AC007970, AJ295233, and AJ131111.
HMSHT01	177	733800	1 - 1410	15 - 1424	AI300571, AW977948, BF059278, AI796954, AI147472, AA443155, BE550035, BF351043, AI042026, AI681058, BF062259, AI131220, AI459011, BF059415, AI197871, BF754233, AV686297, AW440428, AW474309, H97980, AA443154, AI744542, AA811321, AA999772, AA340754, C01465, T32373, N69094, AI655756, AV692251, T07877, AI699053, AW473679, AI914905, R33958, C15945, AV727008, AV709207, AV725904, BF360851, AW903008, AA342134, AW051949, D45335, BE079651, N94000, BE079652, BE079654, BE079653, BE706483, BE150729, BE150748, AW843293, BE150732, AA326399, W38404, AA134959, T06598, AL031670, U91326, AP000008, AC004955, AC007050, AP001713, AP000036, AC007957, and AP001759.
HAPQM57	178	734582	1 - 493	15 - 507	R14061, BF508040, AI521991, AA765567, AW083045, AA704823, AK000761, AK024668, and AF252293.
HSLJK58	179	735584	1 - 1152	15 - 1166	AW378251, BF349814, AA687791, BF739001, AW378183, AA661723, H61383, T88677, AA443169, H62404, AW339864, AA458622, AA252063, AI129690, AW960791, AB006755, AB006758, AB006756, and AB006757.
HSLHL67	180	735747	1 - 716	15 - 730	BF919975, BF884698, AL042074, AL514302, AU126919, BE541256, AL044278, AI910012, AK025896, AB020699, AC003030, AL110250, and AK001349.
HCEMF51	181	738228	1 - 1229	15 - 1243	BF346427, BE222972, AI096636, BF055324, AI202026, N36813, AI700474, BF057448, R86180, AA836670, AI950873, AA747515, AA004893, BF929417, F28396, W57715, T09465, AI032682, BF929409, N52926, AI347667, H65793, N62496, BF819684, AA037619, BF928446, H96052, AA053692, AA335101, H66550, BG013276, W22675, W57695, AI742940, AA037618, AI023952, T30975, AI053553, T35776, AI205934, AA099655, AA053250, AA323307, AA468760, AA468791, AI190834, D58267, AA847679, AA131306, R24607, AI537601, R34823, H80658, AA468740, N79396, AA004617, AW592215, W21585, BF507721, R24507, AA419572, C18786, N46031,

					T95645, N93701, AW272964, D20268, N53988, AV735414, AA367920, R97294, AA182424, H73748, T07569, BF997014, AL161725, AC011479, AC004847, AC005387, AP000512, AC002369, AL138759, AL031291, AC004999, AC005694, AC007666, AC018633, AL021391, AC011453, AC004212, AL132987, AC007934, AC002425, AF092852, AC000052, AC011475, AL096791, AC005098, AC009244, AL162430, AC004929, AC004867, AL034400, AC004971, AL049759, AB011099, Z84487, AC016554, AC012309, AC005527, AC009079, AL031657, AL133269, and AL133418.
HTHCV59	182	738569	1 - 380	15 - 394	BF724366.
HCHCI12	183	738911	1 - 644	15 - 658	AI814233, BE789008, AI923689, H22593, AI924315, BE893732, AI672395, AW003558, AI139636, AW001296, AA341901, H52836, AA610203, BE292891, AI283870, AI950194, AA581497, AA772635, H20778, AA632417, AI982883, AW014256, H52837, AA401724, and AF191740.
HOEAU34	184	739003	1 - 933	15 - 947	BE785762, BF034740, AW291367, AI952290, AI224111, AI685688, BE884900, AW589720, BE879572, AA938159, C75518, AI917337, AA515763, AI672754, AI621127, AA025315, AA626110, AI280349, AA969438, AW593805, AI672755, BG180786, BF827581, AA604068, AI419267, AW468928, BF827580, AI376319, AW878491, BE046125, D56320, AW601519, AA024562, AI459035, AW796648, AA905143, AW363984, BF794861, AW173597, T10751, AI858736, BF513839, AI583886, AL035423, AL050405, AF151837, AL109799, and AF078865.
HFASN59	185	739048	1 - 472	15 - 486	W72633, W85825, AW292870, AI566776, AW300800, AA704967, AW769522, AW270719, BF056849, AI933210, AI955865, AI139323, AI970515, AW008498, AA102083, AV707325, Z40506, AI634473, AI637497, BE855675, BF794262, BF794268, W21929, AL161954, and AB033092.
HLHCU82	186	739503	1 - 589	15 - 603	W81266, AV715086, BE886885, AU129709, AI147438, AW958065, BE748304, BF924130, Z43756, AA076164, BG257398, BE748368, AW900549, T30492, BF963791, R31521, R39748, BF747729, AA164492, AA164408, AA165265, BF963446, AW169232, AA362001, BF961893, AA164486, AW857222, AV715737, AA169420, AA286803, R24661, BE548583, AA173493, AL049970, AK001522, AX014818, AF081567, AX015051, and AC004073.
HSDJN50	187	740786	1 - 3289	15 - 3303	C16311, AV744803, AA617936, C16288, C16312, C16299, AA378304, AI908796, T03242, D57193, A10277, and E00105.
HMAFM05	188	741055	1 - 830	15 - 844	AL135000, BE615660, BE615163, BF591100, BG031141, and AI004500.
HKAAA18	189	741128	1 - 615	15 - 629	BE886885, AI147438, AV715086, W81266, AU129709, Z43756, BE748304, AA076164, BF924130, AW958065, T30492, BE748368, AI312945, AA173504, AI826803, BE865502, AI984591, BE504702, BF963791, AI692671, BF033188, BG166939, AU151786, BE748892, AI691035, AW188216, BG257398, R31521, BF747729, BG252418,

					AA740828, AA054507, AA481199, AI569223, BE858405, AA814187, R39748, BF513375, BF028590, BE856745, AA164409, AW900549, BE565650, AW169232, AA115066, AI808045, AI990010, AI951348, AA504621, R76739, BF961893, AA164487, BF033353, AA457403, BE548583, AW080568, H96862, AA169281, AI219805, AA811266, AI222468, AI672331, BE565131, AA287650, W67151, AI680571, H03576, AA328319, AA115461, AA362001, AA054370, AW613600, AI619506, R76400, AI978796, AW771812, AK001522, AL049970, AX014818, AF081567, AX015051, and AC004073.
HISCL61	190	741659	1 - 470	15 - 484	BF981512, BF796581, BE085286, BF332149, AA931819, AA973582, AA429312, AW973153, AA536132, BF768310, AF103939, AL096717, AC011480, and AK026616.
HAGDA61	191	741921	1 - 479	15 - 493	N28519, AL527398, W20154, AW835447, and BF357837.
HFIIO11	192	742518	1 - 1413	15 - 1427	AI806322, BE670799, N39385, AA969265, H12301, AW172368, AI635117, AW080319, AW073584, BE047461, AA071517, BE326673, BE672127, AW663394, N25209, AA934833, D60357, N73795, AW959297, AW591719, D60791, D60969, AA812106, AW074902, AA295000, AI913551, AA082339, Z45740, R40302, AV707810, AW449764, AW444857, AW297753, AV704312, AI472249, AI351162, H20050, AI268635, AW439652, AI380998, AI400441, AI383449, AA887902, AI028684, AA884559, AA994343, BF222104, AI866171, AI272928, BE350212, AI739164, AA370008, AI245979, AA868556, AI686138, AI478243, AW268613, AW272433, AI826470, AI122571, BE044560, AI290558, AI961527, AI963996, AI638283, AW051659, BF115914, AI823779, AI572734, AW235551, AW300029, AA071493, W81652, AI685265, N57910, AI400267, N99422, AI139467, BF223805, BE672889, BF223097, AW418679, AI969296, AA235834, H81010, AA722836, AA410211, R17911, AV683000, AI806668, AL117332, AL110196, AF220187, and AK025476.
HUSGB32	193	742690	1 - 827	15 - 841	AL520187, AL531563, AU132580, AU130799, BE882122, BE879478, AW160955, BE892389, N77502, T95386, AI272187, AU130009, T18576, AW856046, BF890940, BF891385, BF947987, R02677, AK001628, and AB007952.
HTXED15	194	743383	1 - 429	15 - 443	AA528482, BG258358, AW580060, AW384232, AF231919, AB011111, AP000268, AP000102, AP000033, and AP001713.
HCFMF12	195	743426	1 - 467	15 - 481	AI393223, AW137697, AV693339, BE551063, AI690236, BF972414, BE888288, BF382441, AV759369, BG034953, BE327195, BE895010, AV689381, AL536781, N89398, BE313508, AI159746, BE870346, AA838632, and AC022201.
HSSJG62	196	744278	1 - 690	15 - 704	BE275282, BE794760, BF828003, BF792569, BE563242, BE048058, BE264558, BE889229, BF317326, BG178267, BE383623, BG169600, R84523, BE973549, AW963822, BE048059, W90260, BF238287, BG249725, BG169750, H24191, BE388727, BG254946, BF573589, BE503382, W15480, BE742218, BG169751, AA877146, AI919155, AI553967, AA731875, AI219434, AI418622, BE396041, AI203295,

					AA926893, BE221867, W47042, AW295052, Z20937, AA375718, BE908386, W47041, AW881536, AW881535, Z44525, AA054582, AI651689, AW628222, AK000218, and A74618.
HFIHF63	197	744330	1 - 753	15 - 767	BF515002, AW182823, BG149845, AA010826, W95509, AI378016, AI420515, AI669104, W95412, AW297177, AA782437, AA011202, AI869000, AI702739, AA450119, AA889785, AW838926, AA255554, AI291551, and AV710402.
HMDAG54	198	744453	1 - 1308	15 - 1322	AA885450, AI743800, N56997, AI434796, R54589, AA838013, AA972237, BF529879, BE767116, AA034159, AI339777, N32915, N92879, AA568992, AA837929, AW602025, R39403, AW004682, AI589399, AA971945, H01140, N47381, N42057, BF993812, BE701705, BG011684, AA375505, AW963809, H72112, AA404257, H72214, W25626, BE872782, AA404707, BE698928, BE698972, R12941, AW889999, BF346329, and AB023186.
HCHMI51	199	744616	1 - 596	15 - 610	AW163744, AL518997, BG116858, AW411274, AL519081, BE299314, AL516014, BF206119, BE207665, BE253757, BE893138, BE315068, BE731840, BE273432, AW239225, BE206818, BG026004, AL536767, BE314646, BE793733, BF314320, BE256738, BG250428, BG037134, BE791233, BE870505, BE264445, AL533915, BE796325, AL516728, AL535892, BE794527, BE898620, BE740410, BF689369, BE254767, BE301933, BG116860, BE794941, BF205402, BE383589, BE905181, BE905182, AW160342, BE315054, BE793880, BE407320, BE740904, BE740140, BG026322, AL515122, BE383890, BE293920, BE741879, BE901598, AW249063, AW248313, BE299034, AL533320, AL533414, BE390596, BE390600, AA173214, BE019059, BE205763, BE336828, AA221020, AA082515, BF968775, AW293274, BF382705, AA191088, AA375893, BF037948, AW298594, BG164333, BF038894, AA093111, BF887454, AA580476, BE264102, BF981356, BE907690, BF206149, BE777904, AW247691, BE088651, AX013736, AJ276485, and AC011666.
HAHEA63	200	744726	1 - 517	15 - 531	BE740305, BG008977, BE882802, BE732895, AA513222, BF769244, BE733610, BE900359, BE735361, BE731047, BE900400, BE280702, BE280260, T06970, BE279426, BF761620, BE891122, BE868552, BF811619, BE531137, BE410023, BE884431, BF038337, BE735209, BF035340, BE903339, BF839400, BE391834, BE246266, AP000356, AC009287, and AK025242.
HAJAN63	201	744831	1 - 562	15 - 576	BF211669, AA190358, N32552, AA233943, AW592432, AA453596, BF107263, BF802429, W03366, AA454131, and AL445493.
HSRFP52	202	745408	1 - 1307	15 - 1321	AA789332, AW469963, AI925535, BE669814, AI925543, AV728348, BF732842, BE080915, BE670545, AI685010, AI690167, AA570056, AA470465, AW969303, AW770920, AI634463, T95424, AW003925, T95333, AW080646, BG179881, BF310921, BE617765, AI468303, AA312696, AW268987, AW962841, AA356443, BF690832, AA311608, AA682679, and BE962309.

HCHOH38	203	746390	1 - 890	15 - 904	BF035194, BE747413, BE742498, AW955374, BE278879, BE255037, AL036511, BF346168, BE745997, R35141, T09059, AW675162, R53360, W52313, BE832849, AW881228, D58601, BE613931, BF360548, AA227833, BE904123, AL529226, AW675247, T31282, BE707890, AW674880, BF762613, H08615, Z43881, BF958024, BE175335, BF956636, AB026894, and AL080083.
HMSBS61	204	746583	1 - 1137	15 - 1151	AW962762, AA056485, AA256728, BF676173, AA044899, AA152263, BF724264, AA833748, AA761514, W67990, BG180100, AA533357, R25725, H14406, AV649750, AA370304, R21676, AA749192, BG253897, AW137063, AA332425, AA906615, AA609380, AA707774, AA767523, AI473912, N32366, BE046443, AJ250014, AB020656, AK000187, AK024348, AF161542, AX017216, and AK024212.
HNFHK32	205	746584	1 - 999	15 - 1013	AA044687, AA056651, AI130924, AA150290, AA044899, AA150588, AV649750, AA833748, AA056485, AA152263, AA761514, AA906615, AA767523, AW962762, AA370304, AK000187, AK024212, AJ250014, AK024348, AF161542, AX017216, and AB020656.
HTPCT63	206	747208	1 - 543	15 - 557	BF205650, AW957197, AW954542, AV698342, AV688020, AA491052, T33088, AA287563, AA007576, Z45821, AW996840, BE539893, AW378973, AW378977, BE294195, AW663291, BE081286, AA188797, AW075763, AI907226, AK002065, AK023416, AK022659, AB019602, AB019494, AL137726, and AC008925.
HE8NL29	207	750243	1 - 715	15 - 729	AC011077, AC011077, AC011077, AP002381, AP002381, AP002381, AP001016, AP001016, and AP001016.
HTTFM66	208	750750	1 - 421	15 - 435	AU136930, AU124766, AA147472, BE262742, BF791639, AA490803, AL049745, AK001269, AL354612, and AL354613.
HE9EM20	209	751048	1 - 2794	15 - 2808	AL521540, AL521539, BF724865, AL043617, AW612138, BG026803, AA490652, H49906, BE884132, BF576441, AA211731, AW340639, AI863590, BE960872, BE463538, AA490653, BE071845, AW820883, AA181029, AI858386, BF197532, AI566009, AI953390, W69466, AW316992, AW070487, AI923866, AI935070, N73159, AI566750, AI417872, AI016324, AI090116, W15440, AV725301, AA186420, N20596, AI671349, N39139, AI265888, BE858974, AA913036, AI358573, AI628972, AI186732, BE790478, AI984363, AA704919, AA917601, W69550, BE934848, W39624, AI650674, BF476672, BE934846, AA894710, AA447125, AA099943, AI984949, R82637, AA693315, H09503, BE763632, H70345, T90178, AA349889, AI752629, H09502, AI471414, BE693723, AA369428, AI537286, BE693716, BE693708, R11238, AW821064, BF884852, BG007300, AA404558, AW131948, BE005812, AW966090, H70346, AL135226, AA367092, BF086478, AA853977, BE071864, D79253, BG015935, AA827603, AA369427, N46549, AA249763, T82987, R82682, BF111281, AW960699, D79320, AW361956, AW821060, R11186, T05974, AA187789, AW176530, BE810842, BE810771, BE005726, and AB018283.

HISCQ44	210	751286	1 - 828	15 - 842	BF683169, AW752992, H50932, AL525434, F12992, BF793997, AU123305, AL525390, BF312571, AK001160, and AK023622.
HTGAU79	211	751677	1 - 1598	15 - 1612	BF969492, AV648389, BF348172, BF979269, BF973457, AA579641, BF683887, BF980517, AV648431, AV757661, BE612779, AW969738, BE777860, AI149891, AI889233, AA659710, AA461487, AI028588, AA460132, AV648314, BF940060, AA113277, AA682750, BE874201, BF510365, AI421205, AI753378, AA985248, AA936668, BE872797, AI914588, AI493749, AA169113, AL449856, AA046575, AA633392, AA722409, AI752615, AA169112, BF514541, AI424537, AL449857, BE545191, AA233726, AW268600, AA516077, BF979800, AA483490, BF060885, BE907645, AW082930, AW815447, AI201331, AA074311, AW609606, AW609594, BE716177, AW601214, AI989665, BE925921, AV658092, T87841, AL449485, AL449487, AL449486, AI087102, AL031055, and AL133520.
HETAJ12	212	751735	1 - 526	15 - 540	AA336727, AI435182, AI811303, AI860491, AI635650, AI149504, AI128359, AL021878, AC007270, AL118502, AP000542, AL109941, AC007204, AC008770, AC011477, AC007386, AL359218, AC006065, AC004985, AL138680, and AX013167.
HDABX16	213	752630	1 - 789	15 - 803	AL530978, BF206968, BF311229, AL518827, BE870189, BE261556, BE312224, BF312384, AL529296, BE621421, BE546607, BF979426, BF733995, BG033996, and AK025822.
HFEBM11	214	753105	1 - 446	15 - 460	BF035651, BG028710, BG110379, AW246245, BG035531, AA496102, W52780, BE560655, AA243109, AW675353, BF678739, AA884239, H85385, AA130095, BE812187, W04939, AV746713, BE617457, BE812189, BE840806, AA523735, BF750755, BE267207, BE770864, BE617905, N49855, AA744680, AK025402, AY007143, and AB012181.
HHGBS74	215	753235	1 - 1645	15 - 1659	AW853219, AW997066, BE243270, AA885705, BE711235, BE711238, BE867296, AA587619, AF114048, R92130, AA631738, AA573593, BE242758, AW629955, BE243140, AW275658, BF088850, BE243090, and AL136418.
HTAAT39	216	753289	1 - 1133	15 - 1147	AA446344, AA612751, AA298785, AA298780, AA298784, AA446524, AA298781, AA381170, AL357565, and AL357565.
HHSFO30	217	754184	1 - 305	15 - 319	AA099051, BE545794, AW966127, BF527400, AI834232, H73629, H73153, and AA249658.
HTAFE69	218	754529	1 - 486	15 - 500	AL109806.
HMSCM47	219	756579	1 - 1377	15 - 1391	BG122203, BG033920, BE259004, AL039961, BE275205, BE252695, BE391526, BE387863, AA683395, BE898764, AA159553, BE171959, BF983104, AA070288, AA345663, W39500, AA195153, BE895254, AA247937, AV660024, AI240936, AW972536, C03121, AW238459, AA036806, BE501409, BF026836, BF573216, AA195024, AA576054, AI700985, AI733547, AI668621, AI821455, AI820824, AA433955, AA600978, H39940, H44284, AA581968, AI082471, AW753990, AW451108,

					BF306826, AA679007, BF000539, AI954678, BE503335, AA366682, BF352313, BE296500, AI696707, AW409673, BE269312, BF923618, AI203303, BF001790, AI344341, AW237780, AA505943, H44446, AA724912, BF511836, and AA677790.
HETLM70	220	756676	1 - 1126	15 - 1140	BE740087, AW960605, BE304956, BE207572, BE645551, AA425334, BE048918, BE927270, BF748385, H13734, AW751971, AW748813, AA559207, AW362246, AW601591, AW195635, AI908541, BF090860, BF516168, AA335628, BF591120, AA177001, AA160404, BE179770, AI824341, BF002699, AA578987, AI681859, AA991211, BE859016, BF038466, AW751973, W37110, AW611712, AW150693, AI357925, AV724505, BF872555, BF855782, AW173702, BE830375, AW664454, AW102565, BF765954, BF515478, BF090962, and AW001725.
HLYEN32	221	756950	1 - 787	15 - 801	BG117737, BG164386, BF854000, BG165061, AA428942, BE179097, BF194980, AI597929, BF205686, AW014245, AW769144, BE964916, BE620629, BE620090, AI687722, AI521276, BE276332, AV744444, AI559587, BE267602, AI279594, AI346062, AA625675, C75468, BF949795, W25095, AI581157, W44408, BF804338, BF854448, AA252324, H46994, H01257, W93787, BG029616, W57884, AA364849, BE253697, AA442735, BF811696, W31169, AA364527, AA160184, AA252345, AA862309, R08467, N28477, AA931691, H22406, BF965801, AI648609, AA148611, BF808228, AA281164, AA805601, AW959596, AA527501, AA447263, AA368445, N98322, AA482622, BE895802, BE877959, AA303251, BF854612, AA482477, BF805073, BF805234, H46453, AU157783, W26854, AW380284, AU148604, AA160185, BG118533, BF805062, BF809458, W22475, BF808178, BF738651, R08461, BF808229, BF817630, BF808126, W93786, AU148185, BF808227, AI701223, AA026285, AW366545, BF805070, AA299987, AW873163, AW407812, AI862394, BE076248, AI921016, AW881017, AW817812, AI359819, BF872137, AW382316, N46559, AI061452, AA809361, BF810265, AU146664, AA954145, AW382318, AW027703, AI828926, BF854649, AI276202, BE833277, AW800408, BF873756, BE174189, AW602319, BG004412, BG003226, N45470, BF871111, AW168057, BG005855, W44544, H22405, AW935097, BF762066, BF873735, AI434201, BE140726, AI094763, N47595, BF772094, BE925832, AW993021, BF805232, AI424178, AA280864, AW995613, BF763998, W94846, BF805265, N55950, AI033439, AK027202, AL117430, AK023201, AK023082, and AC010092.
HHFHU45	222	757207	1 - 701	15 - 715	AA043394, BF793925, BF310630, AL521590, BE257614, BF310545, AL526416, AA447023, BE255588, BF036703, BF111265, AW384800, BF206557, AI740580, AI741581, BF095771, AU139117, and AK002164.
HHFHR59	223	757351	1 - 794	15 - 808	BF967526, BE281639, BE799879, AW630745, W56608, BE247401, BF341516, AI750884, R17248, BE835036, AI765843, AA863109, AA346989, AA378515, BE763539, AI767788, AI336999, AW274450, Z98258, AK025641, and AK025861.

HDPPA45	224	757472	1 - 879	15 - 893	AL525879, BF314970, BF568109, BE513130, BE265505, BE378495, BE262153, BF316733, BF310163, BE273819, BE395987, BE266568, BE392129, AA307936, BE871766, AW651798, AW957845, BE263227, BE251642, AW957921, AA458517, AW630663, BF057258, AW362111, AI971714, AW975900, W23063, BE253991, BE256646, AI825679, N50335, AA910981, BE646636, AI811256, AI831840, BF000491, BG163616, AA994984, AA927184, AI685335, BF962309, AI148734, C00192, AW009759, AI380138, AW613907, AW628080, AW614442, AI559684, AI796492, BF436980, AF190464, and AC019099.
HMAGC74	225	757601	1 - 424	15 - 438	BE856886, AI937631, AI150352, AA813461, BF756717, BE536240, BE261441, AU123413, R72672, BG120533, BE785322, T19147, BE719057, BE262082, AK025479, and AK001167.
HHFFR79	226	759851	1 - 1551	15 - 1565	BF984917, AV651048, AV651055, BF062093, AW604368, AA831712, N49477, AI239505, AU160402, AU152742, BE206405, BF980447, BE545660, BE082703, BG176559, AA194860, AA127127, C17830, AV763218, BE019923, BF131534, AA732408, AW796614, AA999677, AA999662, AA376848, AI935648, AW242518, R23330, BE082918, AI678422, AU132460, AA348897, AA352059, AA767527, AU131664, BF691603, BF965186, BF369188, C05569, C05208, AK023119, AK023261, AK024042, AF198534, AF186095, AF163665, AX003675, AX046355, and AX046356.
HMGBP83	227	759888	1 - 1512	15 - 1526	AV759702, AA311915, AW972047, AA953779, AA521381, BF241426, AW995845, AI806245, AW361598, AI911194, AI580187, AA884217, AI872423, AI859991, AI610362, BG181066, BF725463, AI473536, AI538850, AI866469, AW054964, AI366900, AI802542, AW118518, AI440239, AI923370, AI926790, BF812960, BE786043, AI886181, AI890907, AW148363, AI568138, AW051258, AI611738, AI860003, AW983832, AI241923, BF814527, AL514829, AI570807, AW026882, BG222103, AI632408, AW302973, AW268060, AI635067, AI698391, BF812938, AW983703, BG116926, AW081036, AW983691, AI889189, AI866770, AL119319, AI866820, AW148294, AI619502, AI677796, AI627988, AI648454, AI915291, BF970652, AI433157, AI702073, AA806720, BF812961, AI633125, AI868931, AW152182, AI524671, AL513913, AL514843, AW008353, AI433976, AI288305, AI308035, AW983829, BF795712, BG257535, BE963035, AI521596, AI640704, BG110517, BG260144, AI609409, BF817402, BG029667, AI624293, AI499463, AI559586, AI963846, BF727091, AI554821, AW858243, BG252929, AW151136, AI539771, AI932794, BE897632, AI537677, AI494201, AW051088, AI500659, AI824576, AI815232, AI801325, AL515195, AI500523, BF812438, AI499963, AI270706, BE885490, AI582932, AI923989, AI284517, AI500706, AI491776, AI445237, AI620003, AW151138, AI521560, AI500662, AW172723, AI284509, AI889168, AI440263, AI564719, AI866573, AI633493, AI434256, AL514773, AI270183, AI805769, AI888661, AI284513, AI587606, BG031815, AI888118,

			AI613038, BF528717, AI436429, AI889147, AI889376, AI371228, AI921248, AI440252, AI670009, AL047422, AI620089, AI866786, AI696570, AI610557, W74529, AI569975, AI634345, AI887499, AI471909, AW086113, AA449768, AI635467, AA641818, AW167021, AI670002, AI620284, BF868489, AI564259, AL513977, BF982923, AI591420, AI687127, AI590227, BF792961, AV743631, AI648509, AI352497, AI651840, AW131294, AW073865, AI673363, BF895953, AW198090, AI956080, AI694157, AI636588, AI537261, AI371251, AL515413, AL042551, AW151714, AI432030, AL039086, AL514799, BF338002, AI559296, AW238688, AI536638, AL514887, AL045500, AI889133, AI452560, AI254731, BE784387, AI635016, AI500061, AI537837, AI686817, AI890833, AL514757, BE544111, AI683173, BF987104, BG166490, AW079409, AA788861, AI638798, AI569309, AA225339, AI933589, BE886728, BF727072, BF726237, AW149925, N33175, AW150794, AI659795, AI796743, AW079572, AI445829, BF814453, AI828583, R32821, AI860897, AW166583, BG178669, AV709679, AW161156, AI355827, AI445965, BF965814, AI499890, AI349967, AL514359, AI784252, AW190194, AF233322, AX040974, I89947, AR038854, I48978, AK026408, AF087943, A77033, A77035, AF026816, AF116688, AL353940, AX040958, AL080159, I48979, AL137533, AL389939, Z82022, A08913, AL137550, AL389982, AK026462, AL137480, AL110280, A08916, AX026824, AX026823, A08910, A58524, A58523, AL049382, A08909, AK026744, AF061981, AF113019, AL353956, AL137488, U35846, Y14314, AK024538, AF113677, AL080074, AF183393, AF113691, AL137271, AF130055, AL137478, AL137560, AF225424, AF185576, A08912, AL359941, AL050024, I89931, AL137538, A21103, AR087170, AF111849, AK027164, U96683, AF162270, AL117435, X82434, AL122049, A65341, AL162062, AF056191, AL050366, AL359583, AF262032, AF271350, AF090934, AF119899, AL122050, AK026506, AK025798, AF026124, AK026593, AL080148, A03736, AL137292, AF008439, AF090903, AF116682, AK026534, AF285167, AB052191, AK027096, AL162003, AK025632, AL023657, AF177401, AK026532, U80742, E02221, AF314091, AF139986, AF119875, AL390154, AF116654, A93350, AL133075, AF130077, AX010492, AL117440, AL050138, X72889, AF230496, AF116691, AK000418, AL049938, AK026528, AB048953, AJ299431, AK026959, AF217987, AK025435, AL050149, AL122118, AL133560, AL133072, AF032666, AL122110, AK024992, AK026480, AL133080, AK026642, AL133665, AK025414, AX045627, AK027204, AB048975, AL117460, AL110221, AK026927, AL133077, AK025484, AJ012755, Y07905, AL137476, E07361, AF113689, AL137557, AK025084, L30117, AK027146, AF116646, AF130099, AL050277, AL137463, AK000652, AK024588, S36676, AF067728, AX042059, AJ000937, I33392, AK025339, AB047904, AK026542, AK026885, AK027160, AK025312, AK026551, AL133067, AF017437, AF116676, L19437, Y16645, AB051158,

					AB041801, AL133640, AL137529, AB050431, AL050116, A45787, AL157482, I00734, AF116631, AF106862, AL049283, Y11254, AB050410, AB048919, AF130100, E02349, AL137459, AB048954, AK026762, AB048974, AF130105, AK026630, AF116602, AF130082, E00617, E00717, E00778, E12747, X65873, AF155148, AL389935, AF130104, AF067790, AF119337, AK027114, AL137526, AF118094, AL049452, AL049430, AF113699, AF111851, AL117583, AK026741, AK000083, AK026784, AF153205, AL117585, Y09972, AK027116, AK025524, AF090901, AL133113, AF130110, AL050393, AL122123, U49908, E03348, I03321, Y11587, U67958, AB050533, AF090900, AF061795, AF151685, AL133016, AL050092, AF104032, AF119865, AK026045, AB050534, AF177336, U58996, AF119909, A08908, AL117432, AK026855, and AL162002.
HAUBV24	228	760121	1 - 871	15 - 885	AW299924, BF591991, AA641636, BE552126, AI244707, AW582864, W02244, W31405, AA700527, W31364, AA004846, H57642, AA682556, AA005063, AW137554, W78800, H58485, W80643, AA813614, AI982595, H93564, N58338, AV684440, W04505, AI739425, BF063540, W04549, N73988, H93563, AC058787, AC024068, AC068906, and AC034109.
HWBAQ71	229	760146	1 - 442	15 - 456	AA078851, AW237409, and AL158198.
HRACE71	230	760240	1 - 445	15 - 459	
HADGC71	231	760321	1 - 447	15 - 461	AV710229, BF085557, AL137201, U95825, Z75889, AB023196, and Z84467.
HSXFL85	232	760494	1 - 552	15 - 566	AL538220, AL538219, AI480012, H19676, R89656, BE466061, AI992259, AA308883, AI937402, AI633754, AV748497, BF508330, BF316690, BE261557, AI094532, and AF225903.
HNGDQ71	233	760510	1 - 433	15 - 447	
HTOJT28	234	760822	1 - 1278	15 - 1292	BG260462, BE966632, BE622688, AW963926, AI521877, AI334984, AI765363, AI017581, BE274396, AA885230, AW518279, BE736962, BE302086, N42638, N33002, AI367782, N20045, AI354903, BE622520, AW469894, N29070, N25847, N42447, AA379316, BF812981, N21440, AA379869, W94393, BE894449, N43812, W74612, AW276528, AW630384, AW611653, N20169, AW879040, AA994825, AA164284, AA164285, BF350517, AW817775, N28593, AF235022, and M94043.
HSDZF13	235	760890	1 - 910	15 - 924	N25951, AU119260, AL532307, AW009637, BF222719, BE675891, BE551994, AI417147, AI250808, AW512361, AL519408, AW298190, BE644632, AI870137, BE676177, AW978338, AI110587, BE798561, BF062834, AW977503, BE798584, AA768395, BE779351, AI289263, AA769533, AW613648, N26848, AW373450, AW297301, W15533, AI808400, AI079688, AW085089, BE176571, BE176567, AW886581, BF698882, BE674076, AW972105, AW972128, AA677498, AI799484, BE467997, AI360937, AI378075, AI457270, AI363333, AI681227, AI363339, BE218068,

					BF432688, AA627925, BE551356, AI806180, AI984311, AA483815, AW291197, BE294231, AW269239, BE718166, AI300955, BE328888, BG163611, AI129095, BE176524, AW410019, BF993298, AA280184, N42781, BF223391, AW067835, BE218572, AA807144, AI681511, BE707019, BF811910, BG015002, BF026769, BE072453, BE072468, AA748383, AW856033, BG014996, BE072360, BE072414, BE072362, BF063631, AI696003, BE934565, AA479673, BF026313, BE934584, AA281561, BE548839, AA486902, BG013649, T07608, AW852099, AW886779, AW845287, AW845295, T84272, AI126668, AI126371, AL135056, AW812632, BE884938, BG013650, BF082672, BF154756, AA972313, AW852117, BG002895, AI082332, BF345865, BF928424, BF803056, BF327256, AL353194, AK021791, and AL390136.
HTOBH39	236	761762	1 - 1242	15 - 1256	BE748329, N74752, R59259, R19718, AL044945, Z43800, N46928, BF989140, AA215691, AW672673, W20097, H93163, H92772, AW451096, AW672684, AW675432, R05649, BE748804, AW675425, AI122843, BG236421, AA844417, AL355365, U92072, AF118890, and AF118889.
HE9RP73	237	761860	1 - 834	15 - 848	BF195423, AW295027, AI632894, AI375620, BE348529, BE222485, BE348738, AI375618, AI797110, AI912217, AW770520, AI458372, AW293332, AW294242, AI032301, and AA937736.
HSXDG07	238	762023	1 - 1192	15 - 1206	BF001696, AA534383, N46697, AU151694, AI499339, AI743820, AW589672, AU149025, AI432311, AI141137, AI206397, AI925435, AU146251, AA779076, AW262097, AI922995, BE963120, AI378560, N51246, AW028157, H16937, N39252, BF210631, BE748997, AW295413, AL528775, W26344, Z41197, D82385, F11545, AV650935, C18350, Z45504, H12188, N66289, AA283636, F09207, AA236640, T99276, F09206, BE748589, F11546, H11659, T17419, H59417, BF935776, H16829, R27309, R25225, T99221, T99540, AW338205, D58891, R99013, BE716553, T99263, BE716566, AW749636, R55968, AA032271, AI648397, H73161, BF813725, AI831888, BE618701, AW373183, AW887344, D82517, AW887413, AB037835, AK026928, AK001513, and AC007404.
HDPHG57	239	764498	1 - 435	15 - 449	AI693286, AI816113, AI684537, AA429420, AI299311, AA431915, BF446559, AA167761, BF698832, AI751135, BE778891, BF130655, R60698, BG170065, BE789599, BG255064, BE895312, AV717371, BF542106, BE778896, AV717171, N26943, BF796752, AI816153, H17558, W24886, AA716760, BF215110, AA424450, AA301438, BF185620, AI239938, AV705702, AI302044, AA554693, AW895662, AI051013, AI494497, AA349162, AI421385, BG033297, BF380304, AA428364, BF059220, AW964690, R79049, AA325072, AA323645, R78947, BF575192, AA282105, R78954, AI992090, N95752, AV703917, AI188518, AF224669, and AC018797.
HGBAD15	240	765442	1 - 1248	15 - 1262	BF084678, BE765056, AW996750, BF084642, BF838184, BF915389, AW965064,

					BF801416, BE886249, AW813003, AV696891, AV696823, H90200, T71483, T67605, R94391, W03660, BF800050, BF084818, BF084790, R16438, BF084792, BF084824, AU149677, T86896, R05366, BF670154, N91701, AA343651, T71331, U77324, AA618549, Z45791, AI744411, BE697880, BF229401, T86897, R12694, AW937308, AX048074, AK001348, AL122121, and AK022188.
HOEEP07	241	766074	1 - 1425	15 - 1439	AU119569, AL532985, AU142432, AL532316, BE779194, BG033810, BG028780, AV760710, AV727636, AV713588, AU133495, AW339473, AA459878, BE539968, AI620522, AA316495, BF210404, BE257714, BG115669, AA416834, BF593261, AI800813, AI802008, AI214937, BF970302, N42223, W01150, AA558968, AW402874, BG107544, BG117674, BF977848, AA190851, AI973180, BF818898, BE694334, AJ239400, AW151776, AW135559, AI421126, AV661683, AA416686, AA504377, AI653340, AI088404, AI361464, R24743, AI708416, N87417, AI364347, N54199, AI768955, BE089339, BE694331, AI474186, BF571572, AA298100, AA330651, AA453973, H11398, AA090089, BE816247, BF352077, AI200360, T36003, BE178580, AW953909, BF573798, N75920, AI918789, R23562, T16195, BF351871, BE670538, D79036, AA453468, AK001766, AK021855, and AK023977.
HFIHT50	242	766558	1 - 815	15 - 829	AW138187, BE207094, AW976574, BG115559, AI738575, BF513404, AA742327, BE244281, AW504001, and AL137480.
HANGD38	243	766868	1 - 1482	15 - 1496	AL526452, AL526495, BF115050, BE408960, AW135408, AU153435, BF036717, AL044198, BE877119, AW044684, AI937823, AI869273, BF568751, AI131226, AW511009, AV690044, AI697401, AI089110, AA253416, AI962638, AV697476, BF568579, AI004204, AI652959, AI150387, AA284777, AI128104, AA837002, R73456, AI869257, AI566712, AI632823, AI587100, AA643153, AW206838, T54515, AW731976, AA335416, BE279820, N22928, AI699828, AI254749, AW381851, AW058487, BF349036, BE265387, AW381852, BG055543, BE547316, AI000537, BE278264, AI913047, AL117398, and AK024269.
HPMGQ75	244	767356	1 - 1144	15 - 1158	AU136849, AI138605, BF090004, AA748696, AI248602, AW135160, AI093693, AW504888, AA350817, AI056943, AA806341, BF962888, AA450196, H09754, AI358958, AI655847, AI352547, BE176203, BE045975, AA149105, R46281, BF090050, T06526, AA699357, R56089, W90058, H09777, BE176213, R46194, BF953979, T07179, AA630146, AA630242, AI739458, AA149104, and AK001942.
HBJJH66	245	767674	1 - 777	15 - 791	AW976160, N24210, BF853022, AI493459, AI744490, AA515275, AW974563, AA400218, AA747717, AI214995, AW977625, AI963927, AA747813, AI809251, AI188143, R58937, BE222577, AA435795, AW474677, AI699142, AI985611, AI934156, BG104882, AA648859, AA884351, AI015483, AA400129, AI024070, AA811998, AI419128, and AL122109.
HEGBB78	246	768346	1 - 1946	15 - 1960	AW450341, BF062815, BF433621, BE042961, AA237093, BF437702, AA432270,

					AI472317, AA868341, AW977034, AI264599, AI095500, AI360329, BF939207, AA847485, AA431260, AA236681, AI380193, AI862575, AI800949, AA158767, AA625441, AA565015, AA609030, AA099081, AI800942, AA847586, W76503, AA057283, AA058728, AI475452, AA481052, W72555, AA046202, R43719, AA533026, AI150119, H64004, AI077622, AW449914, AA046282, BG150675, BF446183, T52803, Z20632, AA721115, H64054, AK024637, A75250, AL109914, and AL359994.
HAJBC01	247	768776	1 - 369	15 - 383	
HHGCP75	248	769003	1 - 751	15 - 765	BE867540, AW272260, AI378661, AI871902, AW957020, AA131886, AA193449, H06773, AI349551, AU138307, AA131887, AA193682, R52308, AL513784, F11415, H64261, AA016110, AL524822, BG122385, AA059138, AA299723, AW363105, F06646, BF986163, C06172, AW754048, F05102, AV733911, R25576, H64260, R77194, AW363124, BF446269, AI949988, W39604, H15390, AW024813, BF803600, BG035134, BF362262, AA434293, AL524821, AW901366, AW664063, AI919247, BG007354, AW806545, AK001887, AJ249976, AC006966, and AB025580.
HAIDO95	249	771350	1 - 1405	15 - 1419	BG257943, BG165269, BG259172, AI424802, AI916783, BE910430, AI819053, AI816777, AW272605, AI590692, AI479430, AW514278, AA551171, BF940155, BF445111, AW629154, BE559548, AI735281, AI571324, AI478759, AI393954, AA721080, AI524155, BE503212, AA810185, AI097009, BE390809, AA284628, AI123017, AI261506, AI767266, BE327222, AI681243, AW014194, AW160735, AW014209, AW008652, AA284635, AW376166, AI458147, AI476200, AW376156, BF128669, AI093995, AI143101, AA732032, AW025657, AI308770, AA234937, AA252222, AA242937, BF221723, AI276128, AI360495, AA804455, AW137536, AW376188, AA831992, AA279678, AA705403, AW386011, AA234936, BG231189, AI082377, AW173743, AA371418, C16269, AA169648, AI082246, AI434042, AI094553, AA295327, AA169828, AI094458, AA282437, AI870814, AA204686, AI523829, AW376165, AA280609, AI015800, AW473793, BF773007, AW376186, AA207071, AA207070, AW768513, T10533, BF247348, N98898, AK000654, AC004067, and AC004068.
HE8UD19	250	771648	1 - 973	15 - 987	BF692975, BF980357, BF970789, AW995310, BF943459, AW474322, AA609972, F27451, AW748103, AI491737, BF920158, AW675385, F37347, BF217122, AW387654, BF954266, C01106, BF959308, BF057458, BF954263, AF117829, AC074178, AF061326, and AF069291.
HMAIT58	251	771900	1 - 426	15 - 440	AV712950, AV716955, AV715751, AV716324, AV712255, AW016896, AV717365, N77056, AA333542, AW662189, AA363393, and AL390195.
HDAAE77	252	772217	1 - 1516	15 - 1530	AW961900, H10235, AA310824, R67302, T08985, R17955, AV746798, F05576, R60879, AB046764, Y18276, AF072372, AL137748, and AF072371.
HKAOJ07	253	772639	1 - 547	15 - 561	BF311525, AI537814, N33624, AI254765, AA317406, R99735, AB039887, AP001628,

					AP001748, AC006080, AC005089, AP001746, AP001724, AC004216, U91322, AL121900, AL132653, AC009506, AC004820, AL009172, AC012384, AC007225, AC006075, AC000029, AL031407, AC002299, AF312913, AL109623, AL157384, AP002026, AC011444, AC005098, AC011895, AC025435, AC078843, AC008155, AC007679, AC002036, AL136979, AP001619, AL136128, AC004166, AL049780, AC007655, AC002378, AC020898, AC006455, AL031733, AC010458, Z93015, AP001745, AL049778, AL049834, AL138756, AC002429, AC005015, AL356652, AB017335, AL390755, AL157818, AL096700, and AC005725.
HDTFC73	254	772840	1 - 1291	15 - 1305	AW957373, BE967654, BF672466, AA243659, AA243138, AI435874, AA233092, BF510635, AI823876, AI277512, D51291, T33433, AA350528, AU156897, AA243139, BF478040, T23439, R18090, AA371115, R51070, AI886821, R42984, R39042, T82466, R40894, AW894125, AI382942, AI695784, AI539054, F11126, F02015, D52490, AI685658, C01658, AA748514, T03527, H05920, BE934157, BF999110, T06066, AW901173, BE699319, AK001942, and AF131789.
HDTFI32	255	773040	1 - 524	15 - 538	BF208846, AA158924, W32064, BF358935, and U44731.
HLQCY70	256	773347	1 - 360	15 - 374	H19562, H19062, BF681106, BE675015, AV725465, H52459, R69117, AA614237, AV708759, BE718316, BF726278, AA448546, BE772280, AA447563, AA311577, F36358, BF962541, BE719042, AW327928, W05714, AI093147, H23844, H81705, BG236194, AA772120, H22656, AA657706, BF446211, AA533518, AI582362, BE268803, BE772274, BE772259, BG032680, AL037342, BE250833, BE393724, BE270632, BG180723, AW955450, BF984538, AW974969, BF381633, W93751, BE270682, BE397872, BE774011, AL048648, BF184282, AA335093, AI525497, BE733059, BG258238, AA346023, AI204550, BE277134, BE798289, BF978089, BF337703, AI074215, AA284494, W20206, BE908897, AA533572, H46711, AA464383, AI335325, AA045542, AA287198, AA036876, AA724195, AA865386, AA100765, BE170819, AI168457, AW152438, AA327562, AW404423, AA709329, AA535547, AA555050, AA586432, AA482584, T77375, AI471545, R69236, AA056936, N90563, N26779, BE737066, AA464272, W42411, BE735075, AI139932, AA548760, BG178440, W93700, AA100712, H18965, AA091696, AA419348, AA877233, AA352847, BE719039, N39863, N26835, AI200703, AI140027, AI475731, AI864445, BF742201, H45228, AA465029, AW058191, AA448262, and AA568726.
HELDG78	257	773740	1 - 307	15 - 321	
HAGEK19	258	774276	1 - 706	15 - 720	AV690304, AV655247, AI631883, AW681208, R56792, AI046024, AI048523, AI767614, BE439542, BE439434, AW609020, AW608995, BE439578, BF966771, AW608990, AJ293459, AF038124, BE067210, BF334397, AW609005, AA545726, AA545816, AA545727, AJ404664, AJ278596, AJ251619, AJ278594, AJ404665, AJ293456, AA389641, AV746398, AF144029, AR038762, AX001322, AF095853, AJ290944,

					AF018071, AF029692, AJ277249, AX027452, AF033115, AC005501, AF144028, S80858, U89589, AB026436, AF046029, AF064096, AX014322, AJ295141, A93445, AF135422, AF046032, AB019570, AB040807, AX035760, AJ300180, AJ300181, A57129, AF045378, AF019711, AX002414, AJ295140, U67863, AF015282, AF054096, AF054135, U79408, A95310, X79046, A81344, AF056703, AR069413, AJ250192, U79394, AF019692, E13215, AF015280, A65365, AX003207, AF054014, U79377, U13667, U22491, AF054018, AJ249369, A80476, Y11107, U79331, AJ005669, AF054071, AF054113, U79329, AF054132, AF054025, and AF056695.
H2CBA34	259	774569	1 - 1703	15 - 1717	BE410951, BE385296, AA307119, N41943, N31453, AI917923, BE275846, AI074304, C18742, AJ239398, BE086052, AA317489, AI208843, N25339, AA991578, N55244, AI190190, AA369818, AW957099, BG251842, AA034423, BF942978, BE269211, BF944736, BE513344, BF942976, H82636, BE396785, AA369558, AC004228, AC003025, AF139813, AF073499, AF073501, AF057169, AF057170, AC007263, AC007404, AL121949, AC011895, AL022336, AC005207, AC003072, AF196970, AF196969, AC018720, AL121899, AP001725, AL133551, AC002470, AP000703, AC004522, L78810, AC005015, AC025594, AC005666, AF134726, AC005914, AC005288, AC005049, AC023880, AC006270, AC011495, Z81364, AX039602, AC005924, AC004854, AC005378, AL353706, AL133232, AC024561, AC011453, AC006480, AP000302, AP001727, AC009244, AC005088, AP000114, AP000046, AC002492, AC005180, AC006017, AL359382, AC008474, Z98051, AF275948, AC074338, AL139396, AB015355, AC006014, AL031767, AL109897, AL161670, AC002477, AC004531, AL133507, AC007308, AC005037, AL139039, AC010328, AC005800, AC005488, Z99943, AF207550, AC016027, AC018644, AL049780, AC022392, Z93015, AL008583, AP001695, AC003665, AC005225, AC027319, AC016995, AL121652, AL162505, AF124523, AL049631, AC004867, AC011475, AC002045, AF053356, AL022326, AC004686, AL096840, AC007055, AC003982, AL136137, AL133288, AL161731, AC005098, AC008536, and AL391684.
HDPTC79	260	774739	1 - 1455	15 - 1469	AA495793, AA149783, AA495729, R13843, AI160386, H11562, AA418639, AA151775, AW022459, AI263905, BF924146, AA302905, AI590796, AA418577, AA302904, BF526295, BF990024, AW837927, AW838065, AW837899, and AW838051.
HTHBY73	261	775247	1 - 720	15 - 734	N40667, AA329668, AL532059, BF092002, T35364, H64102, Z43611, BF229785, AI307240, BF364263, BE702964, AI951554, AI909783, AI816064, T29948, Z43604, AI942492, BG054939, AW751045, F07345, AA160594, AW969529, AW188628, AW302233, AI335011, AI423498, BF341298, AA293045, AI051728, AA293436, R78689, H12368, BE696174, BF094196, N26393, AI076557, BF002146, AF249319, AJ293970, AK026102, AF287269, AJ293659, and AF287270.
HE8DL19	262	775419	1 - 580	15 - 594	BE871751, BF980147, BE180414, and AC008784.

HMEGE46	263	775455	1 - 701	15 - 715	BF435789, AI916608, AI344659, BE514712, AA988582, BE219928, AI122693, BE244195, BF222824, AW139768, AI744445, AI457767, AW134479, AW192621, AA171386, BF438959, AI955090, AW149612, AW235205, BE246231, AI953327, AW009231, AI479545, AI333127, AW206995, AI972628, AI807108, AV657186, AI858921, AW016538, BF939058, BF434318, AI351886, D29147, AI337048, AI299186, AI536715, AI656738, AI742727, AI453605, BF061339, BE220688, AI702718, BF196240, AI831375, BF695707, AI762299, and AK023109.
HTEIA85	264	778081	1 - 1999	15 - 2013	AL517126, AA868347, AU124289, BE886699, BF981239, AU124539, AI678634, BF970664, BE889232, BF347159, BE378624, BF969563, AI362032, AI360234, BE783809, BG029433, AI890662, AI207693, BE080873, BE328406, BE884759, AW959929, AA425531, BE173494, AI857342, AW148767, AW391919, BF980651, BE251405, BE536870, BE778123, AW664598, AI870540, AW268349, AW291307, AW051419, AL515145, BE328726, BE542081, AA397933, BG033239, AW613279, BE047494, AA425342, AA604376, BE568547, BE782576, BE869041, AW337957, BF944754, AW058214, AW383098, AI015429, AI811856, AI700231, BE894421, BE867405, BE564442, BG109303, BF082740, AW088558, AA429058, AW368050, H94867, BE568757, AW150319, AL040690, AI088198, BE564719, AI275791, N28822, BG118538, AI984513, AA664447, AA581367, AI318087, AI554535, AA100536, BF349648, AI570789, AW885715, BF742844, AI038533, AA437168, AA781893, BE729239, BE925843, AA127205, AI457156, AA487373, AA487256, AA506615, AI700449, AU148368, AA084186, W39183, N34327, W48615, AA335074, AA083852, AA759004, AA127204, BF931010, AI475155, T16186, N68154, AA282950, W76502, N52965, BF365527, AI492630, N23350, N44219, AA599858, N90243, AA441795, BE256979, AA954074, W72554, AA001366, AA426436, AI150591, Z17342, W48848, AA084150, R17788, H73679, AI244828, BE092078, T34091, BF927370, R15766, R53782, Z43180, AA812472, AA393722, AA992902, AA854973, BF310652, BF330975, R58476, H60664, N80612, R16270, H47840, BF525491, Z17375, R16404, BE891319, H65124, H92922, AI806053, R51356, BE858690, BF918312, AA129474, AA703655, AI273223, AI926270, BF963065, AA329148, BE774606, H92802, BE769225, R20399, AW795296, AI049843, H56558, BF090852, AW607377, R41931, H69496, AA335073, H59850, R94332, H84519, AA083896, BE164310, AA808483, BE710894, BF834037, H73731, R51462, AW674398, H56559, AW380175, BE799336, BF869029, AI886687, H66590, AV729890, AA503185, BE936384, AI298510, BE881294, AW270029, BF923491, R12667, R02834, BE007732, BE007738, BE007723, BE007724, BE007734, BE007727, BE007730, BE926092, BE007729, BE538437, BF806049, BE796361, AA911021, BE926100, AV747567, D20966, T24827, BF926145, AW995423, AI559973, AI590813, AW995373, AW966839, T08376, AB011173, and AL031428.

HSHBF13	265	778087	1 - 933	15 - 947	AI862453, AI569794, AI800423, AI590769, BE313614, BF982756, AI859970, BE301273, AW170296, AI811162, AI653897, AI569595, AW467390, AI652421, AI653548, AI739622, AW276481, AW473524, AW964953, AI963681, BE939495, AI657090, AI624062, AI701477, AA847299, BE892957, AA973284, AW300934, AA884426, AW007927, AI671878, AI150198, AI597690, AW772043, AW205152, AA687348, R48787, AA398522, AA132853, AA639818, BE856046, H16789, AW079395, T72002, AW518068, AW510732, AW025171, AI283535, AI028345, AI208208, BE386015, AI204112, AI869844, AW235822, AI521850, AI917108, AA297158, T87641, BG236404, AI760407, F09217, AA835697, AW009374, AI200294, AW136297, AW578241, BF983084, AA477930, AA609623, T51196, AA292757, BG181058, AA298687, AI222636, T03597, T80196, BF348744, AA046518, AI648526, AA046693, BF591885, AI784267, AI656095, AI539547, AI673418, R50052, AA160800, AA927052, AW196234, BF315318, AW194685, AI283529, BF222991, T64280, T51302, AW384442, AW274852, R50051, AA292781, BF358771, BE793372, BE304649, AW392818, BF804025, BG025169, AI247295, AW812132, AW812133, AW812134, AL527121, BF762485, AK026044, AF288687, U21720, and AF060515.
HLYCQ80	266	778291	1 - 702	15 - 716	AL522429, AL519857, AL525166, BF795119, BF953602, AL522428, BF889168, BF953600, AA417315, BF950828, BF953606, AA363724, BF953605, AA416846, BF950827, BF953597, BF790896, BE219962, BF950833, BE254979, BF953596, AL525165, BE738260, AA442345, AW149619, AI822093, AA401532, AA502835, and AC004024.
HE2OF81	267	778504	1 - 598	15 - 612	AA463471, AI590283, AI479619, AW170566, AI356285, BE671701, AA722942, AW469714, AI279424, AI870381, AI475890, AW105033, AA443030, BE646579, AW135396, AI357242, AI860938, BE856482, AI692574, AI420407, BF948785, AI566567, AI306543, BF929181, AA748866, AA328301, AW204848, AW136075, AA729225, AI251746, AI698815, AW137312, AA865160, AW206983, and AF069736.
HTEBB88	268	779291	1 - 617	15 - 631	AA431834, AA412657, AA383405, BF979852, AA399262, AI970493, AL042749, AI026627, AA431430, AA412489, and AW589908.
HWHGD82	269	779607	1 - 793	15 - 807	BE149572, BE149762, BF927988, BE710647, BE706463, AW860458, BE149306, AJ005585, AL355984, and Z70023.
HWADH67	270	779663	1 - 672	15 - 686	AU142678, AA305711, N48526, BE888778, AK023990, AB032948, AL359929, AK025302, AY008271, and X69942.
HKADC82	271	779838	1 - 518	15 - 532	AA256009, and Z73417.
HHESK83	272	780458	1 - 553	15 - 567	AW238796, AI446252, AU133011, BF528401, AU140703, AV748024, W47453, BF034868, AB011164, and AK001686.
HMIAT16	273	780804	1 - 1205	15 - 1219	BF967603, R56740, R12211, AV724882, AW901254, AW902264, R25705, AV725183, BF362604, AW902149, AR079035, AB033015, AB050265, and AL157830.

HSLJK83	274	780819	1 - 751	15 - 765	
HADFW62	275	781376	1 - 508	15 - 522	BE795727, AA192481, AW304932, R50904, AI475447, AL046510, BF771836, BE763340, R17624, BF037534, and AK022629.
HDTBV64	276	781623	1 - 732	15 - 746	AW971689, BE173409, BE173585, BE173471, AI766639, BE173481, BE173586, AA446322, AI147871, AI423223, AA446503, BF102702, AU157616, AA641529, AA043190, AW074400, AU156799, BE349039, AA043189, BF677334, AI159832, AI419387, AA627345, AI031904, AI886950, AI934352, BF939730, AA854750, AI619780, AI719353, AW103783, AI097237, AI371803, N62242, BF446754, AI932664, BF966850, AA022728, AI082158, AI027157, AA528304, BE895637, AI033762, AI719873, AI205854, AA459012, AI215871, BE173590, AA846562, AA781300, N32245, N32239, C20624, AA838762, AV734597, AA046667, AI805379, AI571690, H88240, BG152848, AI241774, AA825596, N57339, AA721753, AA369579, AW771347, BF941206, AW827132, AA369411, R44703, AW591353, AW193628, AI687862, BF218355, BF363932, H92698, AW901820, AA326713, BF363979, AA349280, AA830510, BF691477, BF363985, R44702, AI699714, BE701927, BF800094, BF576897, AA256744, BE176885, AA376823, W04679, AV659955, H88016, AF113224, AF208863, AK002102, AC021019, and AL358133.
HOHBR65	277	781821	1 - 598	15 - 612	BG177251, BE392473, BE540551, AV750730, BF795551, BF589465, AW504749, AA385917, BE895666, BG119102, AU127443, and AK022818.
HRABZ84	278	782028	1 - 889	15 - 903	N77440, AL079791, BF332757, AA300559, AU124105, AA249371, AA179324, BE706277, AB014578, and AK023168.
HKABD18	279	782431	1 - 595	15 - 609	BE551045, AI761086, BE467416, AW014459, AI658633, AA157537, AW008399, AW578213, AI214342, AI651449, AI292079, N92657, AI524798, AW517316, AW501719, R19362, AA890687, AA203496, R19361, and AC015853.
HUFAJ06	280	783017	1 - 1085	15 - 1099	AU123891, BG254072, BF034062, BG026501, BE905914, BE379882, BF575139, BG178012, BE018688, BF666905, BF724896, BE781202, BF969239, BG029993, BE929233, BF035227, BF084153, AI569851, BE897137, BF084155, AA300363, AI868450, BE886832, AV747378, AW082547, BE938831, BE379802, AW601587, BF812290, BE673019, BE926722, AW675134, BF907150, AW975844, AA479256, BG115871, BE258274, AW754116, BF331949, BF001398, BF109908, AW024440, BF111317, BE543712, BF434200, BF222717, AI742737, AI656136, AW467007, BE877085, AA394229, AK001499, AK001492, AK001222, and AL137401.
HDQFV46	281	783316	1 - 999	15 - 1013	AL531039, BF973454, BE727445, BG115169, BG114062, BF684794, BF973606, BE537060, AW969042, AA700020, BF968627, AW206059, AW957238, BF432198, BF980402, AI672358, BE326492, AA916774, BE003525, BE003532, AU151013, BE003523, AA699619, AA827289, BE206364, AU158148, AU152265, AI032726, BE043951, BE747743, AI024492, AI208858, AI375573, AA725543, AA287974,

					AA693821, AA770210, AI240892, AW510399, AI824282, AI684175, AW362905, AA426229, AI049580, AA525966, AI334247, AA262040, AI032993, AA291268, BE328503, AW383419, AA291339, N59203, BE064374, BF350525, AA504437, AA626831, AA767810, AI188629, W45184, AA993418, AW273123, R60802, BF446920, AI797031, W42659, AI796476, BE741947, AA203299, AI524794, H50988, H18939, AI701999, BE844252, AA782458, AW779035, AV754863, AA480957, AA769274, AA235431, AW021687, BF884832, AA746717, BE242449, AA524731, AA765847, BE064375, BE396252, AA730421, AA370678, AA327714, BE898594, AW957236, BF976418, H51642, H67581, AI215039, AI500031, AI613496, AA259009, BE064373, AI888704, AV717910, AA908871, BE180513, AA362131, AW780116, AA659009, BE931789, AA664580, T97082, BF971670, AA504201, AA778342, BF593055, AW673901, AA291338, AW867029, BF758920, AW383401, AL110271, AK023702, and AK025390.
HMEKH64	282	783318	1 - 1183	15 - 1197	BF971670, BE266703, AV717910, BG253151, BE747743, BF976418, AW386331, BE844252, AL531039, AI929214, BE894133, BF973606, AU130281, BE148644, H67581, AW867029, BF684794, AA362131, AW605843, BE180513, BG114062, BE537060, AW605842, BE257623, AU136976, AW579730, BF973454, AW379329, AI888704, BG115169, BF350024, AA327714, H50988, AA291338, AA504437, AW379315, AA203299, T97082, BE727445, BE003525, BE003532, BE003523, AW340421, AA259009, BF980402, BF364187, AA626831, AW673901, BE396252, AL531040, AA480957, AA235431, BF758920, AW675069, AW957238, AK023702, AL110271, and AK025390.
HTLEE85	283	783631	1 - 541	15 - 555	R09977, T05374, AF184921, and AL110245.
HCE4Q82	284	783713	1 - 1504	15 - 1518	BF979576, BF685876, BF237525, BF980213, AI962634, AI123829, AI675169, AA446522, AI123819, BF439625, AA846261, AA812673, AW013867, AA398356, AI248400, AW952312, AA435895, AW268607, AA293782, AA609058, AA398858, H92236, R85058, AA928382, H23595, AA446343, AA932275, AI143864, AI867690, R86854, R86872, AV728555, AA319860, AA609577, AV728680, R85059, AK024750, AJ400877, and AJ400878.
HODEC95	285	783883	1 - 693	15 - 707	AL121655.
HCBBA47	286	783892	1 - 2015	15 - 2029	AV725226, BE619022, BG178817, BF241370, BE895080, BG113258, AV715766, AV733942, AV726793, AL036345, BE875631, AL036344, AW955920, AW954961, BF512650, BF740018, BF238340, BF794067, BF438225, BF127410, BF541953, AA702956, AI816856, AW772335, AW340628, AI871692, AA421023, BE739050, AW271529, BF244204, AI702180, AI147255, AW501666, AA227625, AI283417, N30286, W73960, AI083587, AA436206, BG180607, AI694900, AW578422, AI349323, R78863, AI191671, AA281451, AA693549, N42007, AA586311, AA321680, AA974083,

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HSKEQ61	287	783939	1 - 2455	15 - 2469	AU135920, AL517209, AU131691, AU130251, AI972528, AI688414, AU123251, BF109719, BE546692, AL517208, BE881139, BE890805, BF793401, BG120087, BF057427, BG250623, BE048738, BE882401, BE613577, AI640498, BE540307, BF343742, BE614292, AW151747, AW958404, AW152397, BG035353, AV682987, BE883215, AV703155, AU128516, BF666236, AW966581, BF106340, AI480333, BE328670, BF218009, BE836374, AU127593, AI685403, BG251542, AI669680, AU152244, AA085541, BG253320, BE964277, BF131711, AW514294, BF244439, AI188466, W44462, AI123344, BE206579, AW627436, AA442555, AA890256, N44947, AU150796, AV705529, W44423, BE770328, AA593805, AI080628, AI569249, BF542143, BF510041, AA622751, AI130841, AA314696, AA621315, BE779242, H72468, AU156368, BF372598, AA559031, BF507523, AW630453, BF245794, AW408163, AI357067, AI263453, AI042577, BE876481, AW517811, AI246358, AI292246, H71650, AI148526, BE222791, AI050839, AA311995, N33165, N51572, AV701651, AV734456, BF733585, AA677757, AA680365, BE925424, AW006059, AW408752, AI003722, AW373632, N26323, AW195678, R70589, AA722821, BE843463, BF447496, BF358328, AV707275, H71651, N39766, H12581, AI783986, H48743, AL041259, R25830, BE552464, H12582, N67428, AA207208, AI863535, AA379962, AA374360, BE825711, AA298251, AA296959, AI745701, H72869, T84011, BF676229, AA380015, BE177759, H86954, BE177295, AA248786, R46828, AA300956, N86979, AI927507, N50351, T52668, H58749, AA861220, AA298872, N75389, W01901, W88430, BF131193, AA694396, T52667, AV710681, BF828638, H48744, BF885210, T84010, BF358281, BF229289, W78815, AA777519, C01970, BF247057, W80714, U97067, AF030233, AK022926, AF006070, AK022539, AF080071, AK022834, AF135021, AF006071, AL050016, AF134888, AF134877, AF134872, AF134871, AF134873, AF134876, AF134879, AF134884, AF134881, AF134874, AF134887, AF134880, AF134875, AF134878, AF134886, AF134885, and AF134883.
HWEAC64	288	784039	1 - 559	15 - 573	BE618503.
HSDFQ43	289	784159	1 - 419	15 - 433	AW842475, T30776, BF184770, BF207585, BE866760, BF185766, BF572915, T34250, BE569159, AV710343, BE865603, AA307732, AV710294, BE748463, BE380139, BF695555, BF575624, BF693664, BF242001, AA224139, BF542130, BG164206, BF574646, BF244208, BF978686, BF665201, AV757001, N31447, N28523, N24472,

					AA315977, N25832, BF126194, AV755045, BF030653, AA315741, AA315704, AV762479, BF726845, AA306451, T35600, AV682139, AL037057, T36026, BE566339, F13092, AA308179, H11162, BF213491, AV742374, BF212261, BF215659, BE564609, BF970245, BE748359, W52454, BF210592, BE739340, BE559897, AA305608, BF671423, T36097, BE565736, BE569026, BF671079, AA313248, BF208645, BF208098, BF573520, BF214865, AA528272, BE974004, BE892418, BF382909, BF105294, T79893, BE566468, BF243468, R27532, R27490, BF105175, AA313381, BF030902, BE569069, BE379860, BF218037, AV710851, BF666664, BF692398, BE380152, BE569047, BF102492, BF691366, BF691690, BF576905, BF669240, BF031549, BF214357, W46663, BF666299, BG260730, BF184430, AL525947, BF218488, BE777709, BF574204, BF699197, BF574730, BE566636, BF666336, BF977067, BF976775, AL531298, BF670590, BF980810, BE566596, BF242973, BE276083, BE560474, BE783331, BG168761, AL533096, BE889996, BE564618, BF691316, T75448, BE887893, BF693552, BF694311, BE270115, BF694884, BF694756, BE380082, BF382504, BF242232, BF790806, BE731980, BF131875, BG171607, BF105051, BE777683, BF105035, BE568726, AV716454, BF210268, BF671572, BF028449, AV695106, Z45665, BF696872, BF030848, BE614039, BF029009, BF211214, BF219340, BF241869, BE565114, BF541353, BF103739, BF131647, BF243185, BF212175, BF671032, BF210262, BF105111, BF979150, BE564089, BF382617, BF676332, BF242784, BF217361, AL037133, BF667363, BF212615, BF671957, BF130546, BF673943, BF541664, BE777623, BE612838, BF242415, BE379899, BF541325, BE564103, BF690924, BF130379, BF979252, T74479, BF669316, BF576944, BF211705, BF184123, BF209838, BF240502, BF243012, BF698615, BF690720, BG168318, BF241242, BF247451, BF699543, BF219357, R71434, BF693543, BF216606, BF212659, BE565400, BF541652, BF030955, BF211412, BF212894, BF103815, BF240227, BF212081, BF030775, BF693533, BE565474, BG111409, BF696532, BF541362, BE868846, BE737831, BF790812, BF571542, BE564290, AW328744, AW328643, BE565162, BF215730, BF243317, BF693979, BF214143, BF743934, BF213920, BF103609, BF241131, BF028189, BF106298, BE566915, AV728134, BF573256, BF240970, BE865999, BE866322, BF208517, BF208458, BF673015, BF211503, BF211464, BF105870, AF145385, AF077034, AL110233, and AC004067.
HMHBN86	290	784650	1 - 452	15 - 466	AA188631, BG107319, BE867590, and AK026841.
HLTAZ78	291	784764	1 - 1271	15 - 1285	AL526600, AW008531, AI954708, AL526720, AI693936, AI625579, AI074610, BE892520, AI653264, BE892521, AI380208, AL521258, BE858829, BG248963, BE547313, BE874107, AA732580, BE884466, AI718587, AW168885, BG150345, AW270103, AA486528, AW340471, AI343412, AI633274, AI247394, AW770249, AI243322, AI129112, AI799900, AA152076, AW196976, AI969017, AA151991,

					BF000572, AA461171, BE018430, AU154488, AU145202, AA992258, AU151129, AU154523, AU149226, AI338436, BF246278, AL043366, AI538424, BE465882, AU158637, AI565812, AA263168, AI861839, AI299179, BF939669, AA151240, AI421724, AW949494, AW002584, W60404, AA115302, AW949496, AI743145, BF939699, AA130370, AU153808, AW005951, AI951952, BF437848, AI676045, AW029000, BF475675, AA485923, AI076510, AW803506, AA053350, BF214480, AA678504, BF764527, AA150021, AA215449, AI719333, BG254391, AA116104, H28819, D29392, H52070, BE312293, BE772139, AI766861, BE715614, AA600190, BE899121, AI874093, AA005206, AW371779, BG179973, AW392384, R44379, AW371803, AW382234, AW382221, AW382454, T30558, AW382230, AW382494, AW382495, AW392379, AW392380, AW382473, F13716, AW366552, AW382233, AW382209, AW382215, H02650, AW371806, AW371780, AI287628, AW371784, AW382463, AW382465, BE205965, AW382245, AW382479, AI003877, AW392377, AW382243, AI538425, AW382464, AW392383, AW382485, AW382492, BE960622, AI868817, AW392381, AA707364, AW382242, AW371821, AA121069, AW382448, BF132449, AW382244, AW392376, AW382219, AA648817, AU118702, AA361216, AW382217, AW338599, AW382486, AA700179, BF822855, AW138960, AW803505, AW803489, R24574, AI679422, BE019290, AI679933, AW382475, W60124, BG253232, AW384298, AW382459, AA693589, AW206115, AA908946, AW794784, BE502998, and D86978.
HLDBM50	292	784930	1 - 1497	15 - 1511	AW970247, AA749081, AW970328, AA242881, AA534752, AI767158, AW134505, BF001990, AI222246, AA766655, T81312, BE001722, AA764820, AA767994,
HHEDH33	293	785013	1 - 527	15 - 541	AA282886, AA983324, AW262486, AI200540, T81840, AW994525, and BF746861. W07333, BF966356, BF345047, BF966166, AV706030, AL532785, AI929589, AL533353, AV723356, BF791175, AV723613, W37917, BF967376, AA306202, N78175, AA355342, AI146458, W77834, AA010474, H38038, N72450, AA169869, H50965, AI655965, AA312530, AA354371, BF678700, AA805036, AI566732, BF102698, AV761465, AI948482, N64212, BF214204, AA306939, AI760966, AA515863, AA347822, BE242703, N31260, AI953952, W16828, AA328013, AA648335, R57511, AA325779, AA329322, R50284, BF213966, T93146, AV740787, AA357064, AA356670, AA328151, N42259, AA306801, R01594, BF240302, AA768073, AA285240, AA328907, W72197, BF511262, AW001742, BF214042, AA515854, BF929192, AW972835, AA283306, AI077300, AW338181, AA356764, N32815, AI015666, BF057072, AI472098, AA742803, AA677584, AW301679, N58011, AW105514, AA730357, AI128690, AV735482,

					AI147003, AA775257, AW241515, BF931704, AA354145, AI147297, W37875, N90923, AA469192, AI709087, AA773947, AA579389, AA480477, AA469123, AF038953, AX015347, AL021786, and AL009028.
HAIDL86	294	785497	1 - 450	15 - 464	AA330427, AW961567, AA207037, AW612514, AI972017, AL044564, AF097027, AF097026, AL137064, AC007394, AF290421, AC002992, and AL078590.
HTEPF14	295	785958	1 - 696	15 - 710	AA429918, and AA813674.
HOEDD04	296	786659	1 - 1140	15 - 1154	AW299799, AW084139, AW242363, BE552186, BF112070, AI823595, AA931217, AI625868, AA741511, AI015177, AI640397, AA706004, AA582716, AA706025, N62554, AI421672, AW139031, AW205790, AI039797, AI983142, AI094692, AW770391, AA599803, AA111973, AW770810, AI612830, AI910734, AA974688, T34710, AA204852, AW380711, AA083691, M78458, AI817638, N79222, BE220738, BF760186, AW380703, AI609833, AI360898, BF740075, AI381705, AW194879, AW864253, AI094606, AA708986, AA748372, BF091355, BF736748, AI580218, BF943536, D19947, AI917379, AC023154, and AK024713.
HODBK89	297	786830	1 - 517	15 - 531	AI909710, AL519788, BF205386, BG025642, BE165754, AU134287, AW853154, AI203203, AW235417, AI633942, AA808812, BF437493, AI198588, BE270126, BF680360, BF681547, AW149313, AA702729, AL040061, BF846782, AU117305, BE384952, AA576336, BE147416, AA613345, AI700109, AV655096, AI963720, AW002350, AW965008, BF964993, AV758600, BF030591, AL119984, AC013357, AK000579, AB037772, AL137699, AK001368, AC009516, AC018751, AC011442, AB023049, AC008079, AL096840, AL121578, AP000555, AC000353, AC005180, AL139342, AC008403, AC005182, AL049709, AC008745, AC007308, AC005736, AC005377, AC003101, AC002558, AC005747, AF111169, AC006539, AC002991, AC008521, AC008651, AX039602, AC020917, AC005695, AP000688, AC007011, AC006345, AL049694, AP001724, AC011455, AC006004, AC004659, AC007263, AC011484, AL121601, AL049840, AC023105, AC009247, AP001732, AC007279, AC004890, AL109865, AC004865, AL031662, AC006965, AL136300, AL110502, AP000088, AC016025, AP001692, Z97056, AL159977, AC074338, AC005527, AL033504, AL049540, AL136234, AP000362, AL445217, AC005922, AL031276, AP001714, AL096791, AC079603, AC011811, Z95114, AC009756, AL162430, AP000553, U89337, AC000003, AC020904, AC005098, AL121752, AL008721, AC005988, AC007383, AP001752, AC011475, AL033529, AC007845, AC006143, AL110115, AL031293, AC010789, AC005520, AC004166, AC005914, AL096700, AC003109, AF235098, AL355497, AL121825, AP001696, AC004638, AL049871, AL355385, AL008629, AC004477, AC005859, AC003091, AC002430, AC002301, AL445490, AL049759, AP001039, AP001685, AC007384, AL391122, Z86062, AC004867, AL139350, AC010422, AP000114, AL139382, AC010877, AC005250,

					AF217796, AF317635, AC005284, AL356575, AP000692, AP001666, AF165142, AL031005, AC006312, AC005829, AC011495, AL157938, AP001681, AL158046, U91326, AC010470, AC005486, AC005081, AL137039, AJ003147, AL022719, AL390028, AL136137, AC007956, AJ239322, AL109804, AL050335, AC006449, AL022476, AC004826, AC007040, AC007245, AP001747, AC006468, AC040163, AC020934, AC006501, AP001725, and AP000512.
HMUAZ89	298	786878	1 - 2011	15 - 2025	AU119217, AU142997, AU126470, AU137552, AV707724, BE885641, BE882395, BF978996, AU133265, BE880546, AU145615, BF768553, BE885051, BF978238, BG109892, BF030417, BF979389, AI025750, BE890586, AU160170, AI476238, BE907761, N24914, N22841, AW239265, AW614479, AI921501, AA147622, BE769266, AI609379, BF675563, AW630231, BE940553, N28649, W24887, AA406583, BF899751, BF058794, H83590, AV690969, T71923, H82720, N36040, AU118939, R81776, BE890462, T87819, BF923426, R81524, AA147660, AA410263, AW615045, N46516, BG112667, BG035201, AA808254, AU123447, BE930817, AA248172, BF130062, BF244860, BE931706, BF977853, BG008198, BE930818, AA389677, BF980328, AC007541, AK024021, AK022770, AK021783, AK001731, and AL117658.
HSBBB92	299	787263	1 - 1329	15 - 1343	BE675230, BF058529, BE674332, AW614474, BF058378, BE673956, AI927890, BE348830, AW517448, BF195636, AA393795, BE348840, BE670412, AW194958, AI569662, AI339198, AI298526, AA393737, W32966, AI362851, BF056919, AA421844, BF940522, AI015297, AW206859, W96354, AI720718, AW135892, AW339997, AI017522, AL121261, AA720627, BF224376, W96353, AW382742, AA808037, AI203573, AA406312, AA836578, AI377825, AW382721, AW382720, BE348820, T06376, T65425, AW752740, AW087789, T35605, AF012360, F09476, AA346740, AI650529, AF012384, AI073493, AA974605, AA884921, AW771989, BF214235, AA742618, AI147995, AI142281, AW798213, BE177396, BE709258, BE709249, BE177395, BE709252, AW662013, BE177412, BE177405, AI207115, AI216652, BF433408, BF116085, AI057029, AI073990, AI139633, BF035385, BE884638, AA909122, AF208855, and AC005943.
HHBGJ75	300	787450	1 - 566	15 - 580	BF967514, AU134850, AL526580, AI815450, BE302873, BF980663, BF968709, BE391049, BE389214, BF237784, BE263463, BE254555, BE514230, BE784473, BE548313, BF663215, BF346762, BF525597, BE895887, BE729721, BF980558, BE544002, AA082886, AA551276, AW327921, BF339883, BG168759, BF247777, AX011651, AJ005896, AK023433, AF196779, and AF229636.
HDPRY22	301	787466	1 - 595	15 - 609	AI762801, BG108111, and AC004990.
HBBBC20	302	787587	1 - 1293	15 - 1307	AW242755, BE539127, AL079357, BE274889, BE780196, BF213445, AV760694, AL134812, AI765812, AI061435, AL037306, AI041196, N29256, BG120268, AI990008, AI678128, BE384590, W45589, AW615370, BF966835, AA889860, AA702333,

					AW172266, AI808427, AI028431, BG110600, AI018204, W27650, AI469442, BF108748, AW337992, W45588, AI611633, AI469430, AA309624, AI302403, AA992610, AI037907, AA769552, AW294502, AA627210, AW613678, AI902952, AA376458, AA210868, C75376, AI052194, AA344419, R55613, BF917319, BF917393, BF111418, AW238413, AA854386, AA053729, AA835816, BG036729, D81811, AI085052, AW769528, AA054679, AA813667, N20543, AI200075, BE897758, BF081943, BF671216, AA056435, AW663287, AI816805, AA643494, AA643488, AI682727, AI619999, BE813101, T83597, AW265138, AA724224, and AF001175.
HMELW08	303	788955	1 - 1232	15 - 1246	AU131931, BE536781, AW402730, AA307816, BF511363, T80567, AA312254, T08529, H16029, H15919, BE812792, R50588, BF903474, H10920, T19093, BE815585, BF921422, BF903459, N22528, AB018268, and AK023218.
HTPDL90	304	789115	1 - 1433	15 - 1447	BF980029, BF979952, AA861754, AI041049, AA974148, AI025824, AI015271, AA973722, AI262750, BF507838, BG037192, AF012394, BF979566, AF260330, AF269223, and AL138721.
HTACZ08	305	789276	1 - 1333	15 - 1347	BG031756, BE743909, BG163922, BF568433, BE379243, BE786070, BE392183, BG105120, BE788274, AA280226, BE280190, AW967679, N35741, AI857402, AA477013, AA835014, BE164855, W93807, AW778886, AA704804, AA921827, BF569835, BF570343, AW403371, AA381259, AW967685, AW403003, AA292772, BG235910, AI079554, AA321629, AI143216, AI763030, AW243050, AI765833, BE830851, AI884606, AA705078, AI949689, AA252009, AI335326, AI338729, AA983569, AW629265, AI963754, AI281191, AW294001, AA279011, AA767672, AA476900, N49211, AI241107, AI392855, AA557282, AI032953, AI087153, AA251779, AI636442, AA249593, AI376580, AI823966, BE712575, W57586, AA731007, AW194627, N50263, AA278476, AA336093, AW963903, AF172244, AK025973, AF131220, Z74023, and AF188706.
HAGEC91	306	789377	1 - 608	15 - 622	AW363486, AI914741, AW861651, BF694382, BF575851, AW857983, AA847414, BF801065, AI904812, AI963431, and AU153706.
HTTCB23	307	789555	1 - 1810	15 - 1824	AU127415, BE877289, BE742573, BF036861, BG029551, BE886701, AI859249, AI742547, BE780605, BE740104, AI768395, BG167281, BE178193, BE177835, BE178349, BE783927, BE178194, BE393733, BE513127, BE879057, BE207514, BE514898, BE276173, AW364748, AU154706, BE302681, AW513821, AW955752, AU148735, AW364787, AU147737, AI820072, AA807512, AI672793, AI138220, AI624654, AI538330, AW837961, AU150892, BE312071, AU149295, AW263238, AI341822, AI077392, AL134933, AA040573, AA598412, AW135642, W35215, AA629672, AI680161, AI358554, AA848068, BF361284, AA936121, AA916037, AI306440, AI313477, AA972982, AW800651, AW193945, AA773533, AI200664, Z39803, H62189, AA040671, Z43743, AI394357, T85669, H73295, BE393061, N74147,

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HYAAL21	308	789607	1 - 1868	15 - 1882	AL514580, BE908546, BF694943, BF692909, AI655972, AA523409, AI809237, AW328507, AW137703, AI377032, AI872211, AA523391, BG231563, BG032081, AI381901, W56565, AI248517, AI217725, AA009534, AW328508, AI150552, AW769415, W92392, AW905043, AW613735, R95131, BF509506, AI241274, BF590059, AA609120, H67840, AW194863, W92335, AA580479, AI912966, AI142666, AW243314, W56787, Z25384, AA531424, AA620439, AA334258, BF593355, R08496, N76255, AI678791, F17380, AI217148, AW057531, AI825787, and AL139395.
HTLHY91	309	789660	1 - 966	15 - 980	AI078157, AI597699, AI761942, AI025092, AA564746, AI243129, AW954966, AA971785, AW242550, T70580, AA865861, AA320319, AI669433, BG032349, H49369, AI795962, AI744837, AW960465, AW966333, AW966399, D58283, AW975613, AW962245, AW975618, D80164, AV699927, AW966062, AW949654, AW966053, D80133, AV721386, AA305578, AW960473, AV719468, AV718800, AV718707, AW966400, AW966054, AV719783, AW959597, AW965177, D59467, AV720464, AV724520, AW959570, AW965175, AW966531, C14389, AW966022, AW966534, AW966041, AW966075, AW973445, AW964477, AW966065, AW966013, AW965163, AV719557, D59275, AV720150, D80195, AW973307, AW975621, AW978648, AW966029, AV720791, AW966050, AV719188, D80227, D59502, AW964532, AW965185, AW965197, AW962395, AW959062, AW949641, AW964468, AW966398, AW973334, AV719822, AW978634, AV722801, AV718692, AW966059, AW973490, D81026, D80269, D51799, D50979, AW973474, AW959799, D59859, D80022, C14331, D80166, AW966330, AW973473, D80043, AA514188, D80188, D51423, D59619, AW978661, D80210, AV720616, D80391, AV720151, AW973482, AW960553, D80240, D80253, AW973541, AW966030, AW958992, AV700229, AV718489, AV720203, AW964756, D59787, AW959136, AV699550, AW962082, AV719324, AV718440, AV718938, AV720028, AV718633, AW959628, C15076, AW975605, AA305409, AW965196, AW973485, AW965184, AW959202, AW973488, AV720211, AV718931, AV720878, AV718844, AV718770, AV720731, AW966332, AV699447, AW966380, AW958993, AV723927, AV699866, D81030, AW956434, AW964488, AW949646, AW949656, AW949642, D80038, AW966369, D80248, AV723097, D80212, D80366,

					D80522, D80193, D80196, AW966388, D80045, D80219, AW965158, AW949629, AW949632, D51060, AW966385, AW966386, AW966331, AV720812, AW949658, AW966378, D59927, AW966368, AW966397, D57483, AW973330, D59610, C14014, D80378, AW966043, D51022, AV720533, D59889, D50995, AW966032, AW960532, D80024, AW956397, AW973447, AW959469, AW964737, AW960454, AW959582, AW949653, AW949645, AW949633, AW949631, AW949643, AA514186, AW949618, AW949657, AW949655, AW360811, AV701839, AW752082, AW753053, AW177440, D80268, AW966023, AW966389, AV718530, D80302, D80251, D80241, AW973465, AW966379, C14429, AW178893, AV700889, AW960504, AW960564, AW965176, AV699746, AW949630, AW966329, AW966377, AV718487, AW377671, AW375405, AV718681, D80439, AV719913, AV654329, AV699669, AV655880, AV701004, D80247, AW975623, T03269, AW179332, AW960570, AV719628, AV699652, AW177731, AF139813, AF084557, AC003025, AC004228, AX027925, AX033851, AR070327, AB028859, AJ132110, AR087649, A84916, AX047063, AX047064, A62298, A62300, AR008278, AR018138, AF058696, A82595, AX021518, AR060385, X67155, Y17188, A94995, D26022, Y12724, AX035434, A25909, AB002449, AX028130, AX020191, A67220, D89785, A78862, D34614, AJ302649, AX020190, AR008443, AX047062, D88547, I50126, I50132, I50128, I50133, X82626, AR016808, AR066488, AR016514, AR077702, AR060138, A45456, A26615, AR052274, AR074139, Y09669, AR025207, A43192, A43190, AR038669, AR066487, AR074136, I14842, A30438, AR066490, AJ294956, AR054175, D50010, I18367, Y17187, A63261, AR008277, AR008281, AF260572, X64588, AR008408, AR091537, AR062872, A70867, AR093385, AR016691, AR016690, U46128, AR074545, AB012117, AX015396, I79511, D13509, A64136, A68321, AR060133, X68127, AJ287395, A85396, AR074141, D88507, AR066482, AX042372, A44171, AR088705, A85477, I19525, A86792, X93549, U79457, AF123263, AR032065, AR060382, and AR008382.
HUTAD91	310	789688	1 - 499	15 - 513	BF965807, AV685993, AA150787, BF971054, AA147514, AV683322, BF688513, BG107778, AA099345, AV724899, BE812238, AW975316, AF083068, AX008894, AL050034, and AC006255.
HKGDE58	311	790091	1 - 518	15 - 532	H12041, R13858, H05358, Z46111, T94956, F07044, F05720, AA454139, AL526738, AA287162, F05717, AW601999, BF575540, AA448686, AW373077, AK001328, AL136125, and AL122084.
HBIAW78	312	790219	1 - 1037	15 - 1051	AL514332, AL536830, AL535522, BG113578, BE790102, BG251666, BE274244, BE544087, AU119954, AV750996, BF527939, BF961404, BE006066, BE144607, BF215713, AA489325, AV647447, AA306990, AA322361, AW955025, AA146767, BE147938, BF853343, BF238369, AA402007, R25971, BE865440, R29542, AA503433, BE865363, BE618234, W88970, BE618770, AI567713, BF694101, AV646465,

					AV646618, AV646651, AF078849, AF181992, and AK001081.
HTOIC11	313	790634	1 - 902	15 - 916	AL523818, AL515916, AI003763, BF853876, AI884669, BF341886, AW964073, AA257165, AI701716, AI668925, AA346322, AA642712, AI934554, AI401259, AI363419, AA715044, BE825965, AI611190, AA760750, AW140054, BE825961, AL522818, AK025955, AK022743, AL031716, and AL031008.
HNTRM40	314	790790	1 - 432	15 - 446	H09686, AL037822, R35089, AL037802, AV752654, AV754822, BF212250, BE564130, BF967422, AU119704, AV753730, BF184625, BE168318, BF213048, AW296231, U96750, AF202543, and AK021882.
HSKAY30	315	790807	1 - 1719	15 - 1733	BG254949, AA523696, AI693488, BF983882, BE783010, AW082970, AA847735, AA504846, AI525023, AW771022, BG023824, BG260412, AA331650, and AK024639.
HSSJN12	316	791489	1 - 491	15 - 505	BE744656, BF875090, BE736886, AA347493, BE837723, BF772194, BE837781, and AB002335.
HTFBG93	317	791501	1 - 470	15 - 484	AL522953, BE790527, BE394934, BE791897, AA769247, T97494, BE837545, and AL031320.
HCHOO84	318	791776	1 - 1250	15 - 1264	AL530086, AL518462, BF435744, BF447607, N62931, AU147014, AU150965, AW069065, BE813285, AA908771, W60768, AI884492, BF939732, AW341210, AI870977, AW952157, AI333834, AW138263, AA971553, BE218074, AI921995, AA039992, D60225, AA039937, D60356, AI741709, AI088942, AA970111, AI151230, AA825342, AI191038, AI285234, N29706, BF221801, AI032842, BF509341, AA705221, R37647, BF476232, D60227, AI951862, AA854144, N56713, D45331, AI186560, D81526, AA319580, D60224, BE550645, T98202, D81364, R40429, T23823, T98203, AA091871, Z41754, F04521, R25601, BE085502, F32155, R26997, R63501, F01808, AW079908, AA910798, AL514129, AW274192, AL514919, AL513755, AL514473, AL514627, AI620639, BE047852, AI537677, AL514691, AW827289, BE048071, AW673679, AI491852, AL513907, AL514015, BE018334, AL049085, BF527014, BG031815, AL045500, BE895585, AW087445, BF341801, AL513991, AL514791, BG164371, BF812933, BG120816, BG180034, AW150578, BF338723, BE876033, AI702406, BF970449, BE874133, AW827276, AL514063, AL040243, BG058398, AI815855, AI536638, AI499463, AL121365, BG252040, AI275175, AI439745, BG118199, BF792469, AI524671, AI433976, AI269862, BF795712, BE963035, AI500523, BF791874, AI433157, BG252929, AI539771, BE047952, AI500659, AV682521, BF726297, AI815232, AI590227, AI284517, AW071417, BF792961, BG179993, AI866457, BG036846, BG032208, BF038131, AL043981, BE887488, BE904178, AL514047, AL513553, BF812438, BE888745, BE877769, BG163618, C16221, AL513757, BF344031, BE047738, BF727092, AI284484, AI802542, AL513763, AI624279, BF794994, AI554484, BF726322, AI612913, AI620284, AI491776, BE047737, BG178130, AL514721, BG257535, AL513693, AW827249, BF971016, AI636445, BG110517, AW104724,

				AI637584, AI857296, AL121270, AL513631, AI539153, AW151485, AI564719, AI624206, AW008048, AI630928, AL514087, AI619502, AL515413, AW026882, AI440239, BG112718, AI590415, BF812938, BE905335, AL513597, AI922901, AV717299, BF793324, BG249582, AV758209, BF812961, AI536685, AV735353, AI064830, BF868489, BF983030, AI610402, BG222103, AW071349, AL047763, BF726001, BE172767, BF970731, AW129659, AW151138, AW117882, BE619240, BE894455, AI783504, AL045266, AI251485, AV757455, AI583065, AI521012, BE875407, BE048081, BG026194, AI445237, AL119791, AI318280, BE612435, AI926790, BE048135, BF725868, AI627360, AW827175, BE048179, BG034554, BG168185, BG110684, BG260037, BG113662, AI571909, BF339594, AI349598, AL513999, AV734747, AL513943, AI828682, BF968205, AL513911, BG109270, AK026858, AK001449, AF119899, I89947, I48979, AF314091, AL110221, AF113694, AF090943, AL442082, AF111851, A08916, AL359596, AL133016, AF017152, AF116646, AF116631, I89931, AF116691, AL050138, AL137557, AF118070, AL133075, AL157431, AL133557, AF116688, AK027096, Y11587, AF090901, AL389982, AL162083, AK025084, AF113019, AL096744, S68736, AF090934, AL050149, AF138861, AX006092, AL050277, S78214, AK000618, AF130104, A08913, AL122123, AF116644, AF113691, AF113699, AF130092, AF158248, AF111847, AL050393, E07361, AL110196, AK026744, AF130105, I48978, AF113690, AF104032, AK026865, AF119875, AB048953, AF119878, X84990, AL359601, AB019565, AX019230, AB048964, AL133080, AF130059, AL133640, AL049452, AF130082, U42766, AF090900, AK026855, AL049314, AJ242859, AL050146, AL122093, AL133606, E03348, AF113689, AF130075, AF116602, AR079032, AL080060, AK026504, AL122050, AB041801, AK025339, AK026045, AR059958, AL080124, AF090903, AF116649, AL050116, AX019229, AF113677, AF113013, A77033, A77035, AK026741, AK000212, AL162006, AL117460, AL117457, L31396, AF078844, AL050108, AF090896, AL080137, AF091084, L31397, AF116639, AL390167, AF219137, AF125949, AL442072, AK025092, X63574, AL137459, AF113676, AF106862, AF017437, AF118064, AL133093, AX046603, AL389978, AF218014, AB047615, AK025958, AB049758, AL137527, AL122121, AL049938, A93016, Y11254, AR011880, AR087170, AK026592, AK025772, AF177401, AL133565, AL359618, AJ000937, AL049466, AL359941, AF125948, AL110225, AK000137, AF207829, AK026533, Y16645, AK026608, AK000083, AL133560, AK026927, AL117394, AK024538, AB051158, A08910, AK026647, AF119909, X82434, AL137283, AL117583, AF242189, AL137550, AF130066, AK000445, AK026583, AF116682, E02349, AB048954, AK026534, AF146568, U91329, AL117585, AK000652, AF079765, AL162062, AK026784, E07108, AK025391, AK025491, AK026452, AK027113, AL049382, AB047904, A65341, AK026542, AL359615, AL353940,

					AK027204, U00763, AL049430, AL049464, AK026959, AK026532, AF130077, AF225424, AF097996, AJ238278, AL049300, AB052191, AF119871, AF177336, AK000323, AL117435, AX026824, AX026823, A58524, A58523, AF260566, A08909, AK026086, AF130087, AK025414, AF183393, AX042059, Z82022, AK025967, AL122110, AF130099, AB052200, AK026353, AF271350, A12297, AF067728, AK026480, AF116610, AX015915, U72620, AK000614, AF118094, A03736, AK024524, AL137271, AL122098, AL133113, AK000432, X70685, AK025524, AF175983, AL137538, AF130110, AL050024, AK027164, AK025484, R16149, R37133, H14818, H92203, N66104, N98707, AA027312, and AA227443.
HE8OX93	319	791839	1 - 663	15 - 677	
HOFMV90	320	792393	1 - 1903	15 - 1917	AL527021, AL526200, AL526350, AI050883, AU134117, BG026013, BG259988, BF033515, AV716795, BE439902, BG179153, AL042527, BF304912, BE538799, BE382941, AU139020, AV712482, AI309770, BF978297, BE645313, BE787686, AV716214, AA311634, AV734344, BE960641, BE961125, BF573492, AW965265, W73750, AA401968, N35837, AI742995, N36891, AW971144, AV733417, AW517372, AV711971, AI041584, AW971147, BF310776, BE247208, AW952915, AA082936, BF928266, AA493138, N99449, AI034056, N46165, R52971, AA401865, H10638, AA402092, BE780248, AA780421, AW608404, AA306957, BG169769, AI590139, H00105, AA083025, AI092921, H08013, AI628586, BE177337, AI935506, BE246188, AW517668, AW373342, AA224056, BE046992, H13899, AA342921, BE770564, AI816971, AU150195, W73812, AA336365, AI522277, D53529, AU154142, BF999012, AU157858, AI375080, AU155221, AW167257, AA155723, N26439, AU144469, AW380567, D62082, AA375213, BE244104, R19026, D81795, AW858988, BE246253, AI095132, N24634, AI277653, AA330335, D61867, AW467017, AI683850, AW293986, AI074423, AI620479, AI738927, AI884521, AI092588, AW104036, AA331411, AI421502, AW189872, AI338456, AA135131, AI753960, AW590921, AI624639, AA471321, AI708833, AW589398, R52972, AA989469, AA721635, AA136512, BF964608, AA090730, BE715023, BF106291, AA045168, AI700880, AW132016, AA620323, AA401653, N88865, T25958, H10639, AI469001, AA889498, R30679, AV759628, D60491, N84400, R44097, AA170811, AI125850, AA248434, AA091440, AA585404, H05034, N71576, T17227, AI568236, AW858995, BF687898, W47457, D29149, H07917, AI929565, AL117566, AK002159, AF046024, AB012190, and AF077330.
HTEFV95	321	792575	1 - 561	15 - 575	AA173831, AA034149, AW962438, AI925174, AA173779, AA366630, AA034150, AA360960, BF309923, AF041449, AF099929, and AK022448.
HETJA44	322	792627	1 - 811	15 - 825	AW836230, BE158913, AA329381, BE167153, and AW856475.
HE2DR93	323	792628	1 - 847	15 - 861	AA418082, BF510463, AW467395, BF854199, BE645470, BE855594, AI952246,

					BF853588, AI094404, R09112, Z12841, and AF045454.
HAJBT15	324	792938	1 - 1382	15 - 1396	AU131406, AU141725, BG163897, BF347918, BF346907, AU122008, BF975998, BE891861, BF663133, BF664526, AI819377, BG164313, BE617220, BF983352, AW961647, BE617116, BF726997, BF347745, BE384672, BG031017, AU129365, AI831967, AA488219, BF662863, BF725683, BE392172, AA738492, AI640490, AW961648, W22839, AI992171, AA854213, AW163566, BF111424, AW961641, AW163568, AA678324, BF203809, BF771379, BE744165, BG013365, BF109059, F07379, F37155, T56819, AW452233, AA323153, AA044212, AI470388, F28906, AI338151, BF927951, AI671891, AI565261, BE392966, BE545940, AA934966, BF772163, T91185, T53324, T84157, AK022317, and L31783.
HDBAD63	325	793148	1 - 1126	15 - 1140	BE741265, BE312413, BE745699, BE733480, BE737309, BG118733, BF311514, BG120868, BE513907, BE780900, BG163371, AW071761, BF206573, BE269413, BE396552, BE746313, AI831605, AW167551, AW301113, AW080934, BE884756, BE269971, AI871908, BG115974, AI400607, AA610308, BE514333, BE262303, BE269640, BE397496, AA308486, AV710504, AI359438, W17314, AW006373, BE543973, AA748535, AA613105, AA858196, AA552239, AA808351, AA865656, AA252191, AI206006, AA307614, AI362958, W92610, AA856552, AI223781, AI318256, AA317879, H63355, AA748698, AI313332, AI363160, H08800, AI349795, AI348900, AW268739, AV737162, AI249393, AI224288, AW269073, AA748697, N78942, AI142521, AA775898, AI094210, AW798313, W95235, AI031635, H06255, AA252190, H87140, BE789797, AI640394, AW296500, AI220261, AI246242, BF438631, AA356102, AA767679, AA761033, R36895, AI358153, AW007922, AA811788, AA992865, AA299716, AA953952, BE514515, BF214503, AW451143, F30133, BE041924, BE535691, BF215139, F36531, AA613122, AI583498, AA299992, AA299715, AW192973, AI457450, BF952078, BF206656, BF214871, AW351886, AW351888, BG236825, AI305300, AI308609, BE042236, AI318574, AI345152, C02485, AI311246, AI340868, AI252028, AI284831, AI349755, AW072504, H08877, AA635481, AK026104, AF151076, AC004832, and AC005585.
HE8QH85	326	793204	1 - 532	15 - 546	BG033816, BE906522, BF688514, BE727928, BF038689, BF315341, BF341913, BF692375, AL533958, BE563977, BE384582, BF125330, AW674780, AL527387, BE933599, BE388832, BF685907, BG167409, AW391980, BE734897, BF342476, BE765142, BF724371, BF929837, BE737113, BE890522, AI554624, BF751581, AW401574, W76458, AW411042, AV690680, BF691173, BE385234, AI313133, BF309365, BE892657, BF026973, W61124, AV748279, AA357067, AW360837, AV753587, AV690264, BE729633, BF819088, BE739848, AL138163, C18294, AW753259, AL533091, AA852415, AL526711, BE383081, T35790, BF306138, AL533957, AV750893, AA331917, BE167364, T35980, AI909669, T30710, AA115838,

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HAICU52	327	793373	1 - 1136	15 - 1150	AL526154, AL524709, AL523425, BE544298, AL523426, BF306790, BE544293, BG177191, AL524642, AL524641, AL530280, AL525941, AL524710, AW411029, AW964098, AL528560, AA535031, AI628434, BE677815, AI911127, BF001389, BE669506, AW275368, AW083365, AI459053, AL529164, AI700697, AW991515, W25488, AL529163, AA321496, AW991379, AA357110, AI433067, BG252187, W19325, AI279622, AI638823, AI671554, BG057262, BF307602, BF796767, AW411028, AA894653, AA374390, and AL530279.
HE6BJ49	328	793433	1 - 1949	15 - 1963	AL515827, AL515826, AL515466, AL119219, BG105611, BE780167, AV715361, AL538016, AV650881, BF980128, BF980045, AV650886, BG257556, BE783853, AA524019, BF341382, AI140326, AL515465, AV756884, AV649635, BF979747, AI457836, BG028526, BE884906, AI813685, BE789320, AV711501, AI185629, AA403195, AW028038, AI820046, AI808798, BE395601, AI094821, AA703293, BF979508, BE834481, BE779514, BE178346, BE178031, BE178177, BE539269, AI633143, BF197142, BE178004, AI816930, AI905561, AI096795, BE178023, AA447266, AW273999, AA234459, AI703330, AA706011, AI829576, BE936920, BF966456, AI347915, AI889382, AW173635, AI423124, AA725548, AW172746, AI140084, AA453099, AA236583, AI458404, AI400126, AI131485, AI436783, AI936016, BF576243, AW662463, BF240101, AW196824, AW473640, AI694031, BF512775, AA809134, AA116134, BF433366, W03419, AA976311, AI927986, AW190800, BE718224, AI985477, AW080021, AI458412, AA315065, AI090025, AL532665, AA101072, AA883532, AW467740, AI446055, BE178179, AI888105, W58544, BE543902, AI264004, AW954289, AA453538, AA082742, AA164718, AA642442, BF575440, AI310082, AW162771, AA279735, AW296515, AA448291, AI139289, AI823697, AA448220, BF243182, BF223307, AA227816, AA134131, AI041884, AV708050, AI422542, AI040174, AV655144, AI079649, T79246, BF438880, W58509, AV649699, N52069, AW419337, AI264008, AW296596, AA448431, AI811217, BE220570, AA349640, AI341524, AV757359, H92809, N72857, AA234446, AW050477, N66494, N57501, AA860306, W68441, BE931918, AI282140, AI674801, AV651160, AV649813, AA234068, N91425, AA806011, AW204791, AA614788, AI368226, AA164980, T08107, AA227990, AI284230, BF028962, H97585, AA480805, AW085005, AW768944, H06332, AI636532, AA204754, W47140, AI375979, H18564, R17372,

				R68285, AI143372, AI143824, AI350596, N69397, R68327, H58117, AI693361, AI372502, H92810, AI372501, AW161983, T79164, N42644, T86831, BF327067, H84167, AA116135, W47189, R62737, F12159, AV656965, AI014919, AA370192, AI240409, N36508, R62680, T36305, T29921, Z45137, AI283686, AI971207, BF572989, BF382822, Z42764, AI739397, H29421, AA255770, H29328, T33043, C01688, Z40868, AA329363, BF209254, R62627, R37355, AI700917, W68349, H67816, AA810382, N36465, AA206912, F04284, T32343, R09714, T06111, AA678435, T09186, AA838580, F09794, R13442, AA507019, W03079, T30254, AA256964, BF988817, N47646, AW194665, AA448363, AA729248, AW572990, AW515496, H18457, R42723, T36276, T66322, AF125102, AK026613, AF068291, AB041568, I48978, I48979, AL137480, AX019230, AK026784, AF116688, AK026741, I89947, AL122050, AL137557, A77033, A77035, AF119899, X81464, I33392, AF130105, AF090934, AF119909, AF097996, A08916, AR038854, AL110196, AF111849, S78214, AF113013, AK024594, AF185576, AL133606, A08910, AL049283, AX019229, AF130082, I03321, E06743, Y16645, AL133640, L31396, L31397, E02221, A08909, AL389939, AL353956, AK000618, Z82022, AK027164, A08913, AF116631, AF087943, AL117460, AF090901, AK024538, AK026480, AK026744, AK025491, AL110280, AF111851, AX040974, AL050277, AK027081, AK026542, AK026647, AK026462, AL442082, I89931, AB047941, AL122098, AF262032, AF146568, AF056191, AF106862, AK027096, U58996, AL133075, AF130099, U42766, AF155148, A65341, AL137550, AK025339, AF079763, AF260566, AK026528, AR075044, X70685, AK026947, AF017152, AK026927, AK026408, AF116691, AL137478, AJ299431, AK025084, AF183393, AR079032, AK025465, AL133560, AL080124, AK027113, AB052191, AF130055, E05822, AF177336, AK025209, AF217987, AL050149, AK000323, AF177401, A08912, AF079765, S61953, AR013797, AL049430, AL023657, AF106657, AL390167, AF111112, X72889, AR087170, AL049466, AJ000937, AK026045, AK027146, AF113222, AF116602, AL110221, AF061795, AF151685, AF130110, AK000614, AB047887, AR000496, U39656, E02349, AK025524, AB049758, AJ003118, AL117440, AF090896, U35846, AL137521, AK026534, AR011880, AF078844, AL122110, AF113690, AF113019, X82434, AL137526, AF159141, Y11254, AF119896, AK026583, AK000137, AL137271, AL049314, AL133081, AK026959, AK025414, AF116646, AX020124, AF090900, AF125948, AL050108, AL050393, AL389982, A03736, AF026816, AF008439, AF130104, AF113694, AL049452, AL050024, U67958, AB048919, AF116644, AK027213, I17544, AL133557, AL122093, AB048974, AK000083, AK026506, AL096744, AF285167, AL162002, AL359941, AF113699, AK000445, AL049382, AX045627, AB051158, AL162006, Y14314, AL050092, AK026532, AL137463, AF067728, AX042059, Y11587, AF119878, AL080159, AF116610, AL162003, AF162270, AB047904, AL137459,

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HE8TJ39	329	793553	1 - 655	15 - 669	AA644279, AA706993, AA419625, AI377279, AI017956, AA305154, AA552468, AW973197, AA583582, BF035298, F17632, AI361845, H11488, BF928543, AW103973, AA483284, AL359763, AF139625, AC011811, AL158167, AL022476, AL034423, AC011442, AC004125, AC009086, AP000356, AC073316, AC008537, AL022336, AC015651, AL133320, AC007969, AC008985, AC020904, AC009073, AL034549, AL354696, AC002312, AL050335, AC005098, AL354864, AL035419, AJ246003, AC002350, AC004531, Y10196, AC008569, AC006483, AC007151, AC004166, AP000555, AC002400, AC002070, AC008273, AC018639, AL353748, AP001053, AC007537, AL139327, AC009123, AL121891, AL121652, AL121658, AC004966, AC005488, AC002300, AC009145, AC005755, AL139100, AC011464, AL132795, AC008009, AC009060, AC010422, AL022721, AL096870, AC006480, AL034372, Z99943, AF053356, AC004560, AF243527, AL109627, AC002550, AC007225, AC002425, AC016543, AL109743, AC004491, AC005512, AL049576, AC008482, AC009244, AC005911, AL009179, AC007842, AL023284, AL033527, AC010789, AC006241, AC004098, AP001752, AL020997, Z84469, AC016526, AL133211, AP000553, AL049569, AC005183, AC010358, AC011475, AC010311, AC006111, U95740, AC005015, AC006312, U47924, AF139813, AL034420, AC007685, Z99716, AC006966, Z83840, AC004765, AL049832, Z99128, AC007955, AL139396, AC005920, AC003025, U96629, AC005409, AC007057, AF109907, AL022320, AP001727, AC005088, AL031291, AL035086, AC004859, AC002492, AC008736, AC018755, AL121601, AC027644, AC005914, AC018738, AJ400877, AC006071, AC004167, AC005924, AC007325, AL021707, AC011495, AC007956, AL034380, AC005704, AL080243, AL157827, AC011450, AC004973, AC020916, AC004983, AJ277557, AL118520, AC002369, AC006001, AC018644, AC007285, AC005071, AC005520, AC003957, AC007954, AL158830, AL049829, AC011311, AC005081, AC021752, AC005522, AC003010, AC002365, AC024571, AC027319, AC009087, AL080314, AP001725, AF047825, AC007957, AL137162, AL117381, AP001719, AL157938, AL023807, AJ277546, AC007298, L44140, AF024533, AC005103, AC010489, AF067844, AC005832, AL117258, AF003626, AC078889, AC004965, AL034429, AL450226, AC007055, AL022318, AL078461, AL021391, and AC018663.

HFIBG92	330	793632	1 - 1130	15 - 1144	BF967569, BE740975, AL523168, BG027905, BE899602, BE349577, BF185827, AA722787, AI953947, AA424105, AI525622, BE736451, AA258555, AW872903, AW156923, BE792564, AW268186, BF725541, AA807637, AA026923, AW137707, BE392140, AA634048, AI521022, AI635097, D29498, AA319186, AA926947, AI783924, AW954761, BE676951, BF987322, AA026922, AL523169, AI094096, F32449, BF219494, BF216090, BE273865, AA424054, BF476007, AA330955, AA355059, AW057948, AW243598, AA304588, BF589809, BG151514, AI609125, BG122341, BE676944, AI570736, AA641443, BE140753, BE006404, BF967494, BE815118, BE842856, AW162176, BF725542, AW239215, BE676945, BG035464, BG119105, AF159442, AF097738, and AF159850.
HDPBJ94	331	794297	1 - 469	15 - 483	AI970509, H23104, N45556, AL040461, AJ003449, AL078614, AL137712, AL139008, AL109748, and AL163204.
HPIAX11	332	794354	1 - 1369	15 - 1383	BF971376, BE879463, BF686451, BF978313, BF345131, BG107146, BE789873, BE156256, AW955131, BE541602, H16422, BE778233, BE177218, BF889194, AA312500, AA491370, H96397, BE706959, AA452643, H00754, AA354863, BE892837, N46768, AA319616, AW971090, AW601929, AA508905, AW601956, T69203, AW601901, BE515196, AI077759, BE763783, AW403746, AI299904, AA894404, BE707609, AW869103, BE079404, BF888077, T77850, AW391033, BF374109, AA778928, BE394658, BE222919, BF447648, AW118121, BE550919, AV753221, BE085498, BE831059, AW070649, AI271452, AK000823, and AL031427.
HBGMW95	333	795325	1 - 625	15 - 639	AA057799, AV758213, AV744690, AV744662, AV741198, AV742048, AW179332, AW366296, AW375405, AW752082, AW753053, AW177440, AV742001, AV742022, AV701335, AV701043, AV701332, AV701017, AV701248, AV741191, AV701431, AW360811, AW973470, AW377671, AV744012, AW178893, AV742667, AV701125, AV701166, AV701357, AV742430, AV701149, AV741187, AI905856, AV742720, AV744004, AV744006, AV743601, AV701123, AV701130, AV701154, C14389, AW966560, AW179328, AW975618, AW966053, AW966029, AW966075, AW375406, AW966065, AW960465, AW973334, AW966399, AW966531, AW978634, AW378534, AW966534, BF349328, AW966369, AW973490, D58283, AW966022, AW377672, AV744770, AW179023, AW178905, AW966333, AW959799, AW966059, AW966013, D59859, D80022, C14331, AW966041, D80166, AW973474, AW966330, AW973473, D80195, AW973445, AW975621, AW978648, AW966385, D80193, D59927, AV741012, AW975613, D59467, D51423, D59619, AW966388, AW978661, D80210, AW178906, D51799, AW965163, D80391, AV720151, D80164, D59275, AV720533, AW960553, D80240, D80253, AW973541, AW966030, AV719822, AV720791, AW964766, AW966054, AV718489, AV720203, AV718692, AW964756, AW966050, AV719188, AW973307, D80043, D59787, D80227, AW973468, AW966062, AV719324, AV718440,

					AV718938, AV719783, AV720028, D59502, AW959597, AV718633, AW959628, AW960473, AW965177, AW975605, AW966378, AW959570, AV719468, AV718800, AW973423, AA305409, AW965185, AW965197, AW965196, AW973485, AV718707, AW965184, AW973488, AW966386, AW965175, AW966400, AV720211, AV718931, AW962395, AW966368, AV720878, AV718844, AV720464, AV719557, AV720616, AV718770, AV720731, AW966332, AW966331, AW973482, AW966398, AV699447, AW378532, AW966397, AW966380, AW958992, AW958993, AW966390, AV722801, AV723927, AV724520, AV721784, AV699866, AW959136, AW956397, AW959062, AW964477, AW956434, AV699550, AW964488, AW949641, AW962082, AW949656, AW964468, AW949630, AW949654, AW964532, AV699927, AW949642, AV739950, AW959202, T03269, D81030, D51060, AW949632, D81026, D80269, C14014, D80212, D80366, D80196, D80188, D51022, D80248, D50979, D80219, D80522, D50995, AW352170, AV738340, AW973447, AV701443, AV701419, AV701422, AV745080, AV744934, AA305578, D80038, C15076, AV742671, AW377676, AW352171, AV723097, D57483, AW966379, AW966043, AW177731, D59889, D80133, AW178907, AW753041, AW178762, AW962245, A94995, Y12724, Y17188, AX028130, AR087649, X82626, A84916, AX020191, A67220, AX047063, AX047062, AX047064, D89785, A62300, A62298, AX027925, AB028859, A78862, D34614, D26022, AJ302649, D88547, AJ132110, AX033851, AR070327, AR018138, AX021518, AR008278, X67155, AX035434, AX020190, AF058696, A25909, I50126, I50132, I50128, I50133, AR025207, AR008443, AR066487, AR074136, AR074545, I18367, AR074139, A43192, A43190, AR066488, D13509, A82595, AR016514, AB012117, D50010, AR060138, A45456, A26615, AR052274, AR038669, AR008408, Y09669, AR060385, A30438, AB002449, A85396, AR074141, D88507, AR066482, A44171, AR088705, AX042372, AR060133, and AR008382.
HUSIJ83	334	796477	1 - 1109	15 - 1123	BE299536, AW410054, AA029709, BF725048, AI185838, BG028965, AW993833, AW607584, AW150237, BG236373, AA972593, AW169689, AW090826, AI858996, AI565091, AA761356, AA768292, AI188109, AW614806, AA827689, AI687658, AA908721, AI633546, AI687676, AI287857, AI288342, AW953241, AI290467, AW170763, AI200723, AI318408, AI458268, AI955558, AA677209, AI205277, AW167207, AI951025, AI934191, AI393399, BG028292, AI758328, AI289811, AW798324, AI351976, AW510522, BF593808, BF857062, AA699748, AW367992, AA913325, R02139, F08977, R39345, AA404220, AI914359, AI698406, AA404686, AI911043, AA767506, AA593292, R02435, AA903530, BE300377, AI862968, BF950755, R26023, N26911, BF832096, BF083877, AW939011, BF216118, AA029641, AA350367, AA383715, BG118825, T79981, AI884411, AI497875, BF305629, BF307808, BE645399, AA350368, BE149550, AA323658, and AB028741.

HBGDP38	335	796622	1 - 483	15 - 497	T58354, and T58399.
HTXEC55	336	798103	1 - 982	15 - 996	AL522930, BF446693, AI869988, AW295294, AI871020, AI291088, AA424317, AI922729, AW081155, AI357811, AI683996, T16074, AI802787, AI811165, AA451751, AA683352, AA877970, AW298706, AI091074, AL528797, AA679407, AA262395, R39774, F37288, AW583965, BE247730, F31394, AI337442, AI862988, BG059596, R01000, AW958999, AW264098, AI865004, AA257153, AW293693, AA257062, AA213899, AA204683, AI867617, AA360510, BF869948, R00999, T15823, H18863, AI572426, AW168778, AW972279, AI758538, AI439664, AI610671, AI924051, AI309306, AW025279, AI096771, AI669864, AI539560, AI950877, AI372009, AW151974, AI625444, AI923989, AI568138, BG114901, AI886355, BF337541, AW150750, AW129160, AI433611, AA480074, S63521, AF119899, AF171061, AF093119, AK024978, AR081734, AL137459, AF308801, AF118094, AF113694, U42766, AL161995, AL050172, AL049430, AL080110, AX015416, AK026959, AY007109, AF227198, AK025375, X52128, AF090886, S69510, Y09972, AL133560, AB050431, AK024855, AF130110, AR055519, AR005195, AK027121, AK026659, AF090900, S82852, AJ010277, AB052191, X57961, AF116698, AK027173, AK027181, AF130089, AR083283, AK026642, AK027260, AK000391, AR053103, A12522, AK026356, AF028823, AF069506, AK027188, AL117435, AL161954, U02475, AF081366, S69385, AF118558, AK027142, AL137259, M79462, AL137479, AF161418, AF119896, AK026624, E01812, AX015425, AL096751, AF140224, S66283, M85164, AL133029, AL137465, AK025414, AB048975, I22020, AP001857, and AP001857.
HFXGI63	337	799513	1 - 2506	15 - 2520	AU132633, AU1119136, BE799425, BE780992, BE793190, BF217040, AA779588, BG028776, AA199859, AA779718, AA664343, AI751072, AU152580, AW962822, AA633737, AA355825, R20381, Z42654, F08207, F02149, AI609972, AW500029, AI732151, AA199929, AW779609, BF681619, AW270768, AW819125, AW069227, AI291037, BF946053, AW237905, AW271917, AA504818, AW468372, AW572721, BE301584, AI357823, AU152561, BG222813, AA584484, BE062476, AW190505, T06202, BE062478, AL079734, T74524, AW080811, AI732120, AW963463, AI249683, BG010084, AA829065, AA704393, AA487226, AI754037, AI612142, AA904275, AI564185, AI017251, AI049630, AL138329, AI634187, AV756491, AI445883, AI753365, AW674258, T57767, AW963444, AA630854, AW969941, AV710045, AA527209, AW191886, AW873261, AI251576, BF991208, AA558404, AA536040, AI859946, AW028429, AI583252, AI753672, AI446205, BF743814, AK025915, AK001590, AB046624, AC007792, AC011465, AP001753, AC007619, AC007055, AC026805, Z95152, AL117382, AL049569, AL031431, Z93016, AF019413, AL021578, AF053356, AL050349, AF314058, AL450226, AC004771, AC007384, AL133274, AF168787, AL121712, AC009123, AC006241, AC020904, AL020996, AC007292, AC008264,

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HAMGW19	338	799889	1 - 753	15 - 767	
HDPTA89	339	800344	1 - 1198	15 - 1212	BF971824, BG106735, BG167306, BG035527, BF037192, BE905217, BF973662, BF339624, AW411508, BF791771, BF568534, BF035520, BE262422, BE728235, BF338876, BG112933, AW404831, BE747455, AA447862, AA314553, BF338801, AW408501, BF223865, AA426192, BE962920, BE382927, BF195273, AI936800,

					AW139128, AI302241, AW960628, BF792336, AI492148, W90647, AA442034, AW615212, AA932579, AA411279, AA086122, BF310765, AA808008, AW404406, AA354073, BE298978, AI187207, BE297403, AI346527, AA938128, AI040261, AA393664, AI440313, H72036, AW612697, AI681334, AA808401, AW130326, AI620631, AI653329, AI147844, BE775069, AA928695, AA868693, AA782611, AI140982, AA732147, AI023036, AI332462, AI457503, AI391483, AA337765, AW402901, AI338295, BE328408, AI094177, AA716049, AA988832, AA236525, AI283828, AI077635, AA336107, AA406297, BE729591, BG179292, AW020439, BE613362, AI332478, AA425266, BF981518, AI825236, BF588487, R49564, W90622, AI536666, BF477703, BG036255, AW439303, AA257965, R76329, AA435692, AA767813, C06192, AA428346, AA478896, AA434151, AA410850, AA292512, AA257966, AI363037, AW079350, BE392860, AW998469, AA419317, BE958587, N94887, AW612258, BE257453, BG110522, AW998470, BF590761, BF763095, AR044460, U93242, and AL096805.
HSLDO85	340	801935	1 - 806	15 - 820	BE312753, BE880620, BE727427, BE794996, BF311864, BF038611, AW129730, BE259585, BE276712, BG178939, BF793303, BF968281, AA910935, AI870987, BE885540, BE389702, BF316569, BE314482, AA707309, BE257344, AW964530, BE276683, AW090049, BE395893, BF204261, AI569774, BG248285, BE046061, BF828154, BE385110, BE908527, BE208254, BE390965, BF036363, AW088236, AA700721, BF434108, N42222, AI188825, AI222163, AI018526, BF828510, AA425831, AI933135, BF828526, BE294105, AI095476, AA884320, BE727256, AV744200, BF828583, AA428347, BE393331, W22084, AA575839, BE019332, BF204699, AA099520, AA830859, AW007735, AI051338, W44963, F22552, AI302395, AW027217, BG057679, AA224033, AA528053, AA643710, AA588420, AA972918, AI220664, AW592051, AI208521, BE019282, AI301455, AI355465, AI869716, AA651649, N62353, AA099521, AA223969, AV741580, W65318, AW792980, AA904065, T49543, BE205941, W44428, AI207269, AA341081, AA533603, AA576820, AA339390, T49542, AA005085, AA339526, AA320308, BG115142, W65317, AV744092, W44467, AA069720, AA069679, BF798469, BF881370, AA687492, N79115, AI188822, AA339467, AA687436, AI918249, AI686174, AI185985, N93812, AI971744, AA247634, BE207653, AI423844, AA426123, AW050559, AA974812, AW263711, AF161519, AC008594, AC008594, AC040160, and AC040160.
HDQDF38	341	805499	1 - 1970	15 - 1984	AW205873, AA203398, BE513505, W87862, AI032039, AA778879, N98667, AW501990, AW248483, AU144352, AW505433, BE468085, W87742, AI049588, AI361617, AI128707, BE769898, AW206917, W01319, BF910489, BE715627, BF919203, R02569, BF874109, BF939052, AW135278, AA243540, AW975082, AA485181, AA658147, R45576, AA831644, C03505, BF919009, AI247530, BE715632, R63560, AA243344,

					AI904031, BF514869, R63515, AI904032, BE061117, BF823087, R02688, R40166, R44207, BF906534, R44208, AI784098, BF091587, BF734769, T12049, BF380607, C03415, Z42786, BF333680, N78722, N87820, AI560595, AV695516, AA721452, AV697734, AV695724, BF771466, AV695721, BF575896, BE769909, BF903846, BE008310, BE875190, AF208848, AK023258, AK021530, and AL359593.
HULAW69	342	805628	1 - 666	15 - 680	BG114558, BF696827, R66527, H46855, AW583586, R28130, BG030159, BF571367, BF382241, BF677752, BF184956, AA420715, AV735500, R82586, AW327347, BF029990, AW161124, AV744127, BG168461, BF971167, H49687, AI878995, AV710467, BG166970, BF968107, AA522937, BG034696, BG163707, BF213193, H44205, W31692, BF030176, AA285085, BG112033, BE256879, BG031029, BF381820, BF183860, AA479559, BF683278, AL535052, BF793677, BF541112, BF132139, BG113339, AA305038, BF103812, AA428036, BF674463, AA315675, W51849, BF130738, BG028333, BE909361, BF213270, R96272, BF700007, BF664599, BF827777, AA310999, N98945, AA121183, H42256, BF665269, BF977675, T53397, AW083308, BF339338, BE878076, BE047828, BE546966, AA298525, BF032082, BF977978, AA203752, BE879546, W79179, AV747127, AA136783, AW405858, AW130434, AW131295, AW131303, BF540976, AI767547, H51483, AI955122, AW301038, AI422293, BF381764, T54405, AW081643, H50194, AI672869, AW055043, AA416837, BE855465, AA633512, BE788872, AI028278, AI351044, AA296778, AI138248, AI281194, AA296829, AI560983, AA082396, BG149478, AA479535, BF084344, R50013, BE789337, BF218736, AI097413, BF676451, BF887309, BF887298, BF879230, BF879163, AA496596, BE744389, AI056143, AA563931, R47812, BE936616, C02084, BF821422, AA477638, H49594, AA813514, AA910282, BF883168, H45628, H45625, BF477346, BE220255, AI912595, AI301158, AI418360, AA516519, N44055, AA284914, AA843796, BF870347, AA416688, AA046382, AA297953, AA722082, AA705272, BE826706, F25958, AI042242, C02981, AI348253, AI879494, AA055293, BF700730, BF247545, BE826711, AI298347, AI346869, AI302881, AA402862, AW799874, BF344686, T52195, AI184088, AA420761, AW236255, AI814753, AA862704, R82587, W74425, AW438834, Z32877, BE834154, AA719502, AI073646, BG026325, AA580072, BF792335, W52111, BF879420, AI718735, W04524, R66528, F30163, AI301336, AA976549, AA136667, AA992419, AI339223, AI866642, AA873692, AI338648, H46769, AI264131, AA468849, H50195, BF879226, T52274, AI394058, AA428813, H44206, AW004649, AA496548, T53398, H42257, AA911310, AA766455, T54328, AX014159, and AF161372.
HE9QK23	343	805751	1 - 1308	15 - 1322	AW897798, AL044056, W44681, AV758808, AW057713, AI445728, AI567918, BF929670, AW137633, AI362734, AI694501, AI560113, R66361, AA973346, R24468, AA256199, R24469, M78793, AA987235, R67503, BF926218, AA688372, AA398164,

					AA861041, AI024099, AA719008, AI694956, AI150346, AI217933, AA459841, BE217862, AA393248, AI652522, AA629029, AW137492, AI075905, AI796754, AF081250, AF081249, AF195527, AF195526, U63407, and U63408.
HNTTB36	344	806145	1 - 688	15 - 702	AV723274, AU132547, AU131582, F11613, AL050070, AB011103, and AL117393.
HETJG63	345	806385	1 - 480	15 - 494	
HLDRO45	346	806430	1 - 2216	15 - 2230	BF795217, BF791941, BG261343, AI684486, BF577081, BF970851, BG105539, AI566869, AW976683, AI423440, AW502562, BF951085, AA484824, N25988, AI861827, BE075227, AW131618, BE075230, AV720260, AW009256, AI916769, AI768611, BG249121, BF062871, AA310252, BE736694, AW131634, BF476238, AW058571, AI356185, N36619, AA955004, W32196, AI096610, BE857335, AI056733, BF059109, N94810, W19887, AI870957, AA134378, AA052976, AI074330, AA284346, AA284345, AW016216, N98907, N39417, W44790, AI223291, AA960796, AA641073, AA311539, AA134377, H56248, R51171, AI682459, BF940771, AA342188, H73423, AA181868, H71237, BE888616, H38561, AA358350, AI266521, AI266523, AI350409, AA731439, T79208, H74193, AW502209, BF676239, T98365, AA358037, N69917, AI284001, N63512, AA053469, BE876332, AI798254, AW073490, BE075519, BE075526, AA384306, AA343294, R51055, H54724, AI474164, C02106, R00686, H54675, AA385699, W57848, N27559, R00580, T98364, BF889258, AA775120, W32231, W57821, AA358349, BE162798, H56054, AA371491, N40379, AA358036, H71238, AI961185, T92855, AI949375, W31970, AA322980, W31378, BE620277, T89879, AW408709, BE880622, BF826341, AA186833, AI510801, N24120, H98792, AV755072, N74027, N20201, AF086175, U25276, AC005103, AF047825, AL079342, AC005803, AL031390, AC005162, AL353706, AC007383, AL161420, AL356057, AL049745, AL049540, AL022718, AC005332, AC000379, AL160234, AC002036, AC008551, AC003690, AC008635, AC002312, AC000353, AC005844, AL109923, AL356865, Z99127, AC004228, AC005231, AC002119, AL136418, AC005011, and AC006449.
HFIDZ38	347	806756	1 - 572	15 - 586	AL449826, AL449912, AL517582, AL519910, BF027493, BE546592, AL521647, AL449825, AL449911, AL530694, AL530801, AL530267, BG115619, BE547319, BE540603, BF238066, BF576695, BE891889, BF029131, BE315514, BF063670, BE869726, AA452699, AL449721, BE961028, AL449722, BF185160, BF185952, AW365059, BG030043, AL449809, AA001396, AL449808, AL449807, AI742426, AV702492, AA361681, N24991, AA017578, BF203439, Z44280, BE737467, AA485157, AI971875, R17530, AI343524, AL449720, BF847853, BF002486, BF805438, F08051, AI681435, AW663669, AI800948, AI741119, AI808184, AI306659, BE091524, AA329679, BE781485, BF196444, BF035075, AA450060, AI929037, AI686596, AW014260, AL021578, and AF314058.
HLMDO95	348	810257	1 - 471	15 - 485	BE958211, BF667988, BF899665, AF282693, and AR083245.

HSLGA19	349	810406	1 - 1101	15 - 1115	
HGBGM53	350	810461	1 - 343	15 - 357	AL520760, BF980926, AA985175, AA357674, BF686128, and BE264273.
HIBCO73	351	810586	1 - 1474	15 - 1488	BG030674, AW954566, BE738693, BE548295, AI635570, BE738125, BE538273, AW303853, BE349507, AA703001, BF871188, AI860461, AI818619, AW628835, AI564058, BG258506, AI248704, T33302, BF930586, AW002906, AA350185, AI244512, AA424468, AA424391, BE707526, T84027, R48915, T76986, AI870687, AI955448, BF002927, AW572041, T77152, AI910493, AW204382, AW136998, BE274025, AI022309, BF760830, Z45871, BE893241, AI918983, R48803, T84026, T80818, AA165465, AA654353, AW195393, AW339291, AA299342, AA165365, Z41503, AI702665, AW961229, T81218, AC005585, and AC004997.
HDPOM13	352	810899	1 - 767	15 - 781	
HMEJR75	353	811268	1 - 657	15 - 671	AA459837, AW953466, AW957134, T09073, BE734978, AW838037, AW608110, Z42773, AF053369, AX003081, AX003083, AB022317, AB021292, AC006543, AC006544, AC007387, AX003085, AB002563, AB047604, AC003061, and AB022315.
HOECE93	354	812221	1 - 563	15 - 577	AL532827, W46511, W22983, AI521138, BE273852, W28334, AA035478, F12221, T66348, AA035451, AW861403, AC005697, and AC004852.
HLHGA65	355	812445	1 - 437	15 - 451	AA463818, and AF015416.
HMABF89	356	812465	1 - 859	15 - 873	BG026050, AI761387, AV658658, AA349453, BE003517, AV657118, AI498310, BE905842, AI288807, AA377721, AA747394, AV657075, AI702320, AI801728, and AA380573.
HLKDC74	357	812760	1 - 1272	15 - 1286	AI923712, AW300857, BE244247, BE047368, AI499936, AW084829, AW591899, AI214481, AF241229, AF117297, AF125304, AL390719, and AL390719.
HDTAV81	358	813300	1 - 783	15 - 797	AL529141, BG024356, BF979494, BE696022, AW504646, AA172300, BF573528, AV764525, AW501168, AA431999, AW014705, AW862909, AV747780, AW800625, and AB011421.
HETIZ34	359	815417	1 - 2780	15 - 2794	AU131998, AU124333, AU124752, AU126247, AU133773, AU125907, AU138965, AU118720, AU124348, AU120256, AU135144, BG120186, AU127635, BE619571, BF034166, BE891010, BG030699, BE738402, AU134389, AV731084, BG109466, BG027171, BF792629, BG171545, AL042815, BE884436, BF212326, BE618965, BG250347, BF977717, AV720645, AV720730, BF981731, BF574770, AI693916, BF791227, AA778662, BG118288, BF692465, BG121644, AU133346, AW967353, BF923740, BF102649, AV752464, AW995083, AW190223, AI979116, BE567006, AU145217, BE737789, BF184355, AI625215, BF852400, AU149058, AU148549, BF031650, AW994925, BF242272, AU149474, AU154977, AW994913, BE301769, AI126560, AW994920, BF677776, AW937894, AI683404, AI811671, BF668908, BE618038, AW771384, AW080047, BF248484, AI831215, AI685351, AU153628, BE866317, AI814722, AI333666, AW835406, AA975513, AU155395, AI679295,

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HWLIX39	360	815669	1 - 1452	15 - 1466	BE378727, BE562826, AW006352, BE512716, AI380009, AW207483, AA282457, AI868583, AA856732, AW138336, AI915131, AL119457, AL119399, AL042382, AL042544, AL119511, AL079794, BF970990, AV726784, AV702147, BG164558, AI889953, AW073994, AI569309, AI471227, BG168696, AI520809, AI890628, AI701975, AL043152, AW193026, AW198075, AI696533, AI868931, AV703495, AI582932, AI582483, AI468872, AI890507, AI800453, AI559586, AI866469, AI476109, BF812936, AW149925, AW083778, AI627880, AI917963, AI923370, AL119324, AI445992, AI288305, AI922901, AI620302, AW020095, AI564749, AA449768, AI287326, AW168485, AI824576, AI635067, BE047852, AI623133, AI696570, AL079741, AI829330, AI587606, AI872423, AI866820, AI282695, AW191844, AI174394, AI073952, AW827289, AW264895, AI590686, AI281757, BE620444, AI961589, AI611738, AI802654, AW130849, BE746761, AI951076, AI365256, AI352497, AI921248,

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HDTJT12	361	823632	1 - 923	15 - 937	AV707825, AA046836, AA047007, BF701182, BF241086, BF206746, AW197684, BF239243, R97204, BG111573, BF694224, AW238561, AA188308, AA157267, AA356666, AA936736, AA171802, N42257, AI498655, BE278347, AA196715, BF246184, BF355711, AA377854, AA377503, BF909622, BF746920, AW957424, AL138743, and AF008554.
HSVCA10	362	824800	1 - 442	15 - 456	AW966079, AW955776, AC007790, AL121578, U66059, U95740, and AC018766.
HDFQA53	363	825910	1 - 447	15 - 461	BF346190, BF530674, AA452430, AI147740, AI553750, AI567497, BF347192, AL132855, and AL049829.
HE9PC92	364	827237	1 - 762	15 - 776	BF971441, AW966059, D80043, AW973474, D80391, D59787, D58283, AV719822, AV720731, D80196, AW966029, AV699550, AW960454, AV719557, AW959136, AW959628, AW966032, D80188, AV718707, AW978634, AW975618, AW978661, AW960465, AV720878, D80253, AW973307, AW959570, D57483, AV699447, AW959799, AW959202, AW966531, C14389, AW965175, AW966053, AW975613, AW949642, AV718489, AW958993, D59859, D81030, D80166, AW960553, AV718931, D80212, AV718692, AV722801, AW959597, D51423, D59619, D80210, D51799, D80240, AW973482, AV719188, AW966075, AW956397, AV719324, AV718938, AW966065, AW962082, AV718633, D59467, AW975605, AW949631, AW973488, AV720211, D80366, AW973334, AV723927, AW966534, AW949656, AW966022, AV719468, AW966013, D80022, C14331, AW966041, AV720533, D80195, D80219, AW975621, AW978648, AW949629, AW960473, AW965177, C15076, AV718530, AW965163, D80164, D59275, AW973541, AV720791, AW966054, AV720203, AW960532, AW964756, AW966050, AW958992, D80227, AW966062, AV718440, AV719783, AV720028, D59502, AV718800, AW965185, AW965197, AW965196, AW973485, AW965184, AV718844, AV720464, AW975623, AV718770, D50979, AW973490, AV724520, AW959062, AW964477, AW956434, AW964488, AW949641, AW949654, AW949643, AV699927, AW949618, D80024, AW959582, D59889, AA305409,

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HMSOU92	365	827837	1 - 639	15 - 653	AV718633, AV718938, AW970877, AW378532, AA651639, AV699669, AW023111, BG236628, T57774, AI061313, AW081194, BF965243, AW572202, AI625604, AA533176, AA532700, BE062476, AA148672, AA630854, AA657835, BF725844, AI732151, AI247183, AA491767, AA574442, AV700313, AV647070, AI754653, AA527741, AW196288, AI188390, T58367, AV762454, C15060, AA610509, BF771774, D34614, AC004965, AC007404, AL121753, AC008784, AL117377, AC009311, AC025463, AC008447, AP001712, AC004518, AP002015, AC083875, AC006312,

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HE8OX52	366	828103	1 - 1517	15 - 1531	W95519, AA551147, BE504547, AA479332, BE144064, AA814952, AW956790, AI674224, AI809609, AW955348, AI700629, AI217948, AI348250, BE931618, AI814776, AA478597, AL535353, AI076807, AW069449, AI214208, AI554308, AA600209, AI052794, N93190, AI095606, AI693158, AI346961, AI285258, AA776521, AA262827, AI660897, AA938883, AA295573, AI538488, AI367916, AL535352, AI249087, N66611, BE714471, D79168, AA928726, AA099616, AI675524, AA426316, AA291162, T79853, BE714488, AA904695, T33275, AW352316, AW469387, AW352320, D79139, Z28451, R49465, AI872902, AI923259, T87389, AI285212, H74133, F00053, D78834, AI537254,

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HDAAS81	367	828170	1 - 3789	15 - 3803	AV707945, BE548222, BF691941, AA193501, BG110103, BF968853, BG120310, AI742850, BF337419, AI743048, BF444916, AW966477, AW068830, AI674650, AW022579, AI633681, AI141784, AI128150, AI681020, AI695117, AI436021, AI651006, BF126529, AW571510, AI740543, AW337959, AI962862, AI264641, AI186663, AI373729, AA150403, AV689068, BE548868, AW952974, AI417065, AW613560, AW024321, AA766018, AI917133, AI378229, AW276569, BF111935, AA968786, AW513404, AA884691, AA605195, AI333917, BE645176, AI080174, AA532856, AW662439, AW022878, AI288445, BF219074, AI765241, AI807038, C05131, AA678829, AW002429, R56429, AI289507, AI620092, AW591640, AW008703, AW591636, AA907190, R67466, BE221859, AI436165, AA922656, AI298110, AI635732, AA991305, AA971765, AW023742, AA055243, AA813082, AA905970, W60091, AA443245, AI652025, AI049642, AW874177, AA157028, AA580268, AW022570, R56702, AW149948, H89788, AW889827, AA716383, BE881791, BF909682, T77700, BF210339, D62875, W52883, H89725, AW068035, AI627492, R56430, R70663, N94450, AI493579, C05594, BF910514, AI222001, R70664, BF439422, BF940322, AV695775, AW188894, AI798260, R22351, N40144, C04213, AW084193, AA384335, Z42750, AA621159, R23317, R78247, R66539, R56857, R82755, R41700, AI536877, D31249, AW138567, AA247438, AW841736, D62874, T34599, AA852328, R66538, R18153, N56613, H42341, R18154, BG013032, AW369653, R19895, R18155, AA191353, T08222, R41701,

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HUSIK57	368	828267	1 - 695	15 - 709	BE264942, BG113271, BE795906, BE619338, BG171557, BE742574, BG256285, BG028915, BF127701, BE278614, BE294551, BE044245, BF203572, BF033465, BE251767, AW024535, BG114072, BE620001, AI743555, AA814296, BF975608, AA161105, AA401079, BF196870, AW134814, AW593006, BF060764, AW014454, BF109502, BF060883, BG027159, BE677746, BF939958, BE326458, AI885853, BF109658, BE251713, BF109958, BG057751, AW015051, BG055051, AW629433, AI191942, AI684726, BE644779, AI806396, AI096504, AI873543, AI948561, AI806621, AW303441, AI192497, AI332947, AI819618, AI217695, BE782766, W47341, AW082763, AI005204, AW181919, AA903406, AA628544, AI040354, AA417295, AI074035, AW205083, AA813115, AA757360, AW304117, AI127461, AA022495, AI168471, AI565806, AW629300, AW778950, AI871471, AI309771, AI128271, AI798935, BE278290, AI318362, AI291930, AI086750, AI273345, AI741820, AW183855, AI168191, AI301511, AA759377, AI311656, AA824270, AI306481, N35076, AI868333, AA461270, AI301090, N72025, AI219804, N72024, AI005324, AI568580, W32428, AI239987, AA262162, AA460961, AW963942, AW081750, AW206592, AA618498, AA860208, AA770473, AA262229, F28325, AA503727, AI345984, AA725024, AI699454, N21678, AI096416, AI087373, AA577174, AA769656, AA969632, AA927863, AI333923, AA587486, AA974988, AA629243, AW008700, AA873216, AA806381, AA416559, AA158822, AA872272, AI807811, AW081735, AA759038, AA160827, AA826741, AI684904, F36661, AA946650, H30248, AA435587, BE296625, AI720496, N49970, AA904856, AW205233, AI491704, F24199, AA804907, AA023021, AA906495, R81344, AI332759, BE513183, R82497, W45005, AI468098, AW086184, F27005, W47466, R82551, AI472840, AA215903, AI300723, AI220914, AA393904, AA403143, AW008693, AI305259, AI374676, N31085, W44492, AA926660, AA887257, AI868779, R78171, AA888574, AA357098, AA516264, AA905146, R64277, AA160240, AA356871,

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HPRBB67	369	828597	1 - 1122	15 - 1136	AL523998, AL522445, AI761326, AI627648, AI096890, AI768749, AI123834, AI769580, AI638060, AI739489, AI972257, AI343435, AI521931, BE045560, BF940125, BG027411, AI765701, AW005873, AI739488, BE883089, BF939906, AA454046, AW129201, AI028080, AA644536, AI337727, AW024980, AA995710, AW772124, W27549, AL522446, AI334385, AW470826, AI670706, W35337, W07281, AW016392, AA235295, AA722700, AW057627, AI203362, AI150551, N79783, AA890228, BF382814, AI017376, AA453627, AI699917, BF195805, AI971711, AI765536, AW418989, AL523999, AI823532, AI766066, W35330, BE264207, AI088874, R41797, F34970, BE296611, W23730, AA306279, AI864330, AA322761, AA371150, H61049, AI382538, AA298233, AA706686, N58312, AA935231, BE048605, W23738, AI768001, N87864, BE876341, BG031815, BE826157, AW950440, AF272036, AL137502, AL138717, AL122049, and AL162062.
HPIBM51	370	828682	1 - 651	15 - 665	AV712703.
HLYFY81	371	828777	1 - 970	15 - 984	BF668112, BF308870, AI139901, BF448659, AA743934, AI817040, AA605076, AA746310, BF102826, AW152501, AI679319, AA976688, AI369815, BE772389, AI858221, AI580110, AI948429, AA454940, AI186062, H98729, AI086150, AI361419, AI362263, BF333747, BF694216, AA662751, AI041625, N24299, AI361545, R91402, AI354298, AW628473, W20421, AA639539, AI344442, T86451, AA953728, AI027564, BF665861, H43805, AA714010, AW797389, W19089, AA888099, R87627, AA181709, R92659, R87531, BG024024, AW797367, BF904180, BF038804, AI567637, AI669639, AW999906, AI537516, BE964497, AI801536, BE566196, BE965481, BE909521, BF876588, AI918634, BF925370, AI364220, AW078767, BE091470, BF816041, BF913615, AW083804, AI679916, AI951222, BF816031, BE393551, BF817746, BF811808, AI050666, BE780932, AI285417, BF753056, N74355, AI632981, BE905628, AI613017, AI608802, AW834325, BF913569, AI952542, AW118508, BF924884, BE068047, AI469516, BE884910, AL513891, AI611743, AI919345, AW172787, BF814429, AI677797, AI701948, BE964767, BF814541, AW148738, AI696626, AW130309, AL513999, BE890955, AW024425, AI379711, AI266558, AI560806, AI699154, AI418128, AI926041, AA746507, AW073898, AI805688, BE965169, AI636719, AL513685, AA830821, AI366549, AA665587, BF915316, BF904248, BE964198, AI926593, BE613727, AI683939, AI589993, AI805638, AI686823, AI636788,